

APPENDICES

APPENDIX A-1

TERMS OF REFERENCE CROSS-REFERENCE TABLE

Jervois Base Metal Project

APPENDICES

APPENDIX A | ToR Cross Reference

A. Terms of Reference Cross Reference Table

Table A-1: 2 Description of the Project

ToR (section)	Information Required	EIS Volume	EIS Section
1. Introduction		1 Project Overview	1 Introduction
2 Description of the project			
2.1 General information	the title of the Project	1 Project Overview	1 Introduction
	the full name, contact details and postal address of the Proponent	1 Project Overview	1.1 Project Proponent
	the location of the Project in the region and its proximity to:	1 Project Overview	1 Introduction
	landmark features	1 Project Overview	1.3 Regional Context 3.3 Cultural & Historic Environment 4.7 Social, Economic & Cultural Surrounds
	sites of cultural significance	1 Project Overview	1.3 Regional Context 3.3 Cultural & Historic Environment

ToR (section)	Information Required	EIS Volume	EIS Section
			4.7 Social, Economic & Cultural Surrounds
	sites of social significance	1 Project Overview	1.3 Regional Context 3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds
	regional community centres	1 Project Overview	1.3 Regional Context 3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds
	areas on the National Reserve System	1 Project Overview	1.3 Regional Context 3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds
	sensitive environments, such as major waterways, significant groundwater resources, significant natural features and conservation reserves	1 Project Overview	1.3 Regional Context 3.2 Biological Environment 4.1 Terrestrial Flora & Vegetation

ToR (section)	Information Required	EIS Volume	EIS Section
			4.2 Terrestrial Environmental Quality
			4.3 Terrestrial Fauna
	the location of Project infrastructure (both existing and proposed) in relation to existing nearby public and private infrastructure, such as roads, airstrips, bores, dams etc.	1 Project Overview	2.1.1 Project Infrastructure 2.2 Project Components
	the background to the development of the Project, including discussion of previous environmental impact assessment and overview of historic mining activities	1 Project Overview	1.4 Project History 1.7 The Environmental Impact Statement Process
	an explanation and outline of the objectives, benefits and justification for the Project	1 Project Overview	1.5 Project Objectives, Benefits & Justification
	identification of areas under exploration that may be mined in future, or any other potential future activities being planned	1 Project Overview	1.5 Project Objectives, Benefits & Justification
	how the Project relates to any other proposals or actions, of which the Proponent should reasonably be aware, that have been or are being undertaken, or that have been approved in the region	1 Project Overview	1.3 Regional Context 4.9 Cumulative Impacts
	details of the Proponent's environmental record, including: details of any proceedings under a Commonwealth, State or Territory law for the protection of the environment or the conservation and sustainable use of natural resources against the Proponent, and details of systems and processes that have been subsequently upgraded	1 Project Overview	1.1 Project Proponent
	any international or national accreditations (e.g. ISO 14001), environmental awards or other recognition for environmental performance details of the company's environmental policy and planning framework	1 Project Overview	1.1 Project Proponent 5.1 Draft Environmental Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	national, state and/or Territory standards, codes of practice and guidelines relevant to the Project	1 Project Overview	1.7.7 Project Approvals Appendix C-13 Relevant Legislation
	the consequences, both positive and negative, of not proceeding with the Project.	1 Project Overview	1.5 Project Objectives, Benefits & Justification
2.2 Project Components	the current status of the Project	1 Project Overview	2.2 Project Components
	an overview of the life-of-mine schedule for the Project phases: construction operations rehabilitation decommissioning and closure	1 Project Overview	2.2 Project Components
	an outline of the geology of the area, including:	1 Project Overview	2.2 Project Components
	delineation of the Project footprint using detailed maps and diagrams, including:	1 Project Overview	2.2 Project Components
	locations of existing infrastructure and mine components locations of existing water	1 Project Overview	2.2 Project Components
	location of the mineral resources to be explored, developed, mined and included in mine rehabilitation and closure activities	1 Project Overview	2.2 Project Components
	all areas to be cleared or disturbed, both temporarily and for the life-of-mine	1 Project Overview	2.2 Project Components

ToR (section)	Information Required	EIS Volume	EIS Section
	the location of any works to be undertaken, structures to be built or elements of the Project, including but not limited to:		
	the open pit and underground mines roads airfield accommodation village and construction camps hard stands stockpiles pipeline corridors rail siding product export or transshipment facilities tailings storage facilities waste rock dumps processing plant water-related infrastructure, including: water extraction points storage facilities.	1 Project Overview	2.2.1 Mine Construction
	major geological units and properties of the Project area	1 Project Overview	2.2 Project Components 3.1.3 Regional Geology
	extraction points and storage facilities	1 Project Overview	2.2 Project Components
	the extent and characterisation of:	1 Project Overview	2.2 Project Components 2.2.3 Ore Processing
	<ul style="list-style-type: none"> - the mineral resource - orebody - waste rock 		

ToR (section)	Information Required	EIS Volume	EIS Section
2.2.1 Mining operations	methods for open pit and underground mine construction	1 Project Overview	2.2.1 Mine Construction
	methods for portal and decline construction to access the proposed underground mining areas	1 Project Overview	2.2.1 Mine Construction 2.2.2 Mining Operations
	volumes of materials required to support the construction of the mine, including, but not limited to, consumables, such as bulk chemicals and fuel	1 Project Overview	2.2.7 Transport Appendix C-2 Traffic and Transport Impact Assessment
	plant and machinery required	1 Project Overview	2.2.7 Transport Appendix C-2 Traffic and Transport Impact Assessment
	design details, dimensions and design concepts for the: open pits underground mines waste rock dumps tailings storage facility run of mine pad mine access and haul roads explosives and detonator magazines product and other stockpiles other significant mine infrastructure.	1 Project Overview	2.2.1 Mine Construction 2.2.2 Mining Operations C-12 Tailings Storage Facility Design Report
	mining types and methods, including the major equipment to be used in the various components of the operation	1 Project Overview	2.2 Project Components
	type (e.g. cut-off grades), storage and management of the stockpiled materials (e.g. top soil, waste rock etc.)	1 Project Overview	2.2 Project Components

ToR (section)	Information Required	EIS Volume	EIS Section
	quantity of material to be mined annually, including any proposed ramping up of production or staging of development	1 Project Overview	2.2 Project Components
	clearing and preparation of the site, including handling/stockpiling/management/ disposal of vegetation and topsoil	1 Project Overview	2.2 Project Components
	The specifications should include details of the location, layout (with and without capping), factor of safety rating, expected design life, permeability and liner and capping design, where relevant.	1 Project Overview	2.2 Project Components
2.2.2 Ore processing	transport of materials to the processing circuit	1 Project Overview	2.2.3 Ore Processing
	processing methods, including the major equipment to be used in the various components of the processing operation	1 Project Overview	2.2.3 Ore Processing
	volumes of materials required, including, but not limited to, consumables such as bulk chemicals and fuel	1 Project Overview	2.2.3 Ore Processing
	water requirements, treatment and sources	1 Project Overview	2.2.3 Ore Processing
	alternative processing methods that have been investigated and justification for the proposed option.	1 Project Overview	2.2.3 Ore Processing
2.2.3 Tailings	Provide a Tailings Storage Facility (TSF) Design Report	1 Project Overview	2.2.4 Tailings
	the anticipated quantity of tailings that would be produced and managed from the Project	1 Project Overview	2.2.4 Tailings
	tailings properties	1 Project Overview	2.2.4 Tailings 4.4 Hydrological Processes 4.5 Inland Waters Environmental Quality Appendix C-1 Acid Mine Drainage (AMD) Study

ToR (section)	Information Required	EIS Volume	EIS Section
	proposed construction of the TSF including permeability and any requirement for liners	1 Project Overview	2.2.4 Tailings 4.4 Hydrological Processes 4.5 Inland Waters Environmental Quality C-12 Tailings Storage Facility Design Report
	rehabilitation and closure objectives including how the tailings will be sealed in the long term	1 Project Overview	2.2.4 Tailings 5.1.H Draft Mine Rehabilitation & Closure Plan C-12 Tailings Storage Facility Design Report
	alternative methods of tailings management, including returning tailings to the pit void and justification for the proposed option	1 Project Overview	2.2.4 Tailings 5.1.H Draft Mine Rehabilitation & Closure Plan C-12 Tailings Storage Facility Design Report
	how the design will reference the ANCOLD Guidelines on Tailings Dams - Planning, Design, Construction, Operation and Closure (May 2012).	1 Project Overview	2.2.4 Tailings 5.1.H Draft Mine Rehabilitation & Closure Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-12 Tailings Storage Facility Design Report
2.2.4 Waste rock characterisation	In accordance with the NT EPA Environmental Assessment Guideline on acid and metalliferous drainage, provide sufficient characterisation to enable assessment of whether the proposed mining operation has potential to produce acid or metalliferous drainage (AMD) or other contaminants or materials that present risks to the environment and/or public health.	1 Project Overview	2.2.5 Waste Rock Characterisation Appendix C-1 Acid Mine Drainage (AMD) Study
	identification of the total amount of waste rock to be produced over the life of mine	1 Project Overview	2.2.5 Waste Rock Characterisation
	description of proposed waste rock storage locations, dimensions, water catchments, surface treatment and final landforms and how problematic waste rock will be sealed or managed in the long term	1 Project Overview	2.2.5 Waste Rock Characterisation
	cross-sectional diagrams showing design concepts	1 Project Overview	2.2.5 Waste Rock Characterisation
	description of the extent and significance of effects on visual amenity from key vantage points day and night and during all stages of the Project, as it relates to the surrounding landscape	1 Project Overview	2.2.5 Waste Rock Characterisation
	conceptual rehabilitation and revegetation plans	1 Project Overview	2.2.5 Waste Rock Characterisation 5.1.H Draft Mine Rehabilitation & Closure Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	consideration of alternative locations, configurations, wall/pad designs and construction, including the option of returning waste rock to pit voids. Provide justification for the proposed option.	1 Project Overview	2.2.5 Waste Rock Characterisation
2.2.5 Non-mineral waste characterisation	descriptions of predicted waste streams, both industrial and domestic, including solid and liquid wastes at the mine site, accommodation facilities and other relevant locations	1 Project Overview	2.2.6 Non-Mineral Waste Characterisation
	information on potentially hazardous materials to be used or produced and methods for storage, transport, handling, containment, disposal and emergency management of these materials (including fuel)	1 Project Overview	2.2.6 Non-Mineral Waste Characterisation 5.1.C Draft Waste Management Plan
	the proposed size and construction details for landfill, and details of wastes likely to be deposited in landfill	1 Project Overview	2.2.6 Non-Mineral Waste Characterisation 5.1.C Draft Waste Management Plan
	legislation, guidelines, and standards applicable to the Project's landfill, sewage treatment and waste disposal facility	1 Project Overview	2.2.6 Non-Mineral Waste Characterisation 5.1.C Draft Waste Management Plan Appendix C-13 Relevant Legislation
	an inventory of any waste streams requiring management during the Project.	1 Project Overview	2.2.6 Non-Mineral Waste Characterisation 5.1.C Draft Waste Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
2.2.6 Transport	Provide relevant information with respect to the road network and any access track construction or upgrade	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	maximum width of road corridors required for construction and operation	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	plant and machinery required	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	vegetation clearing methods and disposal of plant matter following clearing	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds

ToR (section)	Information Required	EIS Volume	EIS Section
			C-2 Traffic and Transport Impact Assessment Report
	timeframes for access track and haul road construction and upgrade	1 Project Overview	2.2.7 Transport
	methods for crossing sensitive areas, such as waterways and/or land units with poor soil recovery potential and if there will be any alteration to local water flow patterns		4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	methods for intersecting linear infrastructure and major roads	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	source of construction inputs and materials for bulk earth works	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	ongoing provisions for road and access track maintenance, including source and extraction of maintenance inputs and materials.	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds

ToR (section)	Information Required	EIS Volume	EIS Section
			C-2 Traffic and Transport Impact Assessment Report
	<p>Details of road use associated with the Project should be provided:</p> <p>type, size and number of vehicles required during all phases of the Project</p> <p>quantities of materials to be transported to the mine (e.g. heavy machinery, equipment, diesel, hazardous materials)</p> <p>estimated frequency of Project-related vehicle use on public roads</p> <p>hours of operation, including peak user times.</p>	1 Project Overview	<p>2.2.7 Transport</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>C-2 Traffic and Transport Impact Assessment Report</p>
	<p>Describe the proposed methods and areas for transporting and exporting product, including:</p> <p>product handling requirements</p> <p>storage and laydown areas</p> <p>road, rail and port networks to be utilised by the Project</p>	1 Project Overview	<p>2.2.7 Transport</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>C-2 Traffic and Transport Impact Assessment Report</p>
	<p>a discussion of the facilities purposes and capability (e.g. East Arm Wharf, Alice Springs Rail Terminal, etc.) to meet the transporting and exporting requirements of the Project</p>	1 Project Overview	<p>2.2.7 Transport</p> <p>4.7 Social, Economic & Cultural Surrounds</p>

ToR (section)	Information Required	EIS Volume	EIS Section
			C-2 Traffic and Transport Impact Assessment Report
	a discussion of export options (Darwin/Adelaide) and justification for the proposed option.	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
	Describe the intended use and capacity of the airfield to service the Project. Detail any upgrades, area of disturbance and commitments to meet aviation legislative obligations (e.g. Civil Aviation Safety Authority).	1 Project Overview	2.2.7 Transport 4.7 Social, Economic & Cultural Surrounds C-2 Traffic and Transport Impact Assessment Report
2.2.7 Water	Describe water use, including:	1 Project Overview	2.2.8 Water
	Project water balance and account. Predictions should include rainfall over wet, dry and average years.	1 Project Overview	2.2.8 Water 4.4 Hydrological Processes 4.5 Inland Waters Environmental Quality Appendix C-5 Surface Water Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>water demand requirements for each aspect of the Project (including dust suppression, drinking water, ablutions and sewage treatment, mine water, processing circuit and any other uses)</p>	1 Project Overview	<p>2.2.8 Water</p> <p>4.4 Hydrological Processes</p> <p>4.5 Inland Waters Environmental Quality</p> <p>Appendix C-5 Surface Water Impact Assessment</p>
	<p>water supply source(s) diversion of surface waters pit dewatering requirements water efficiency and recycling</p>	1 Project Overview	<p>2.2.8 Water</p> <p>4.4 Hydrological Processes</p> <p>4.5 Inland Waters Environmental Quality</p> <p>Appendix C-5 Surface Water Impact Assessment</p>
2.2.8 Energy	<p>Provide relevant information with respect to energy, including but not limited to:</p>	1 Project Overview	2.2.9 Energy
	<p>information on the Project's energy requirements, including mining fleet fuels, and electricity demand for the mine, processing operations and workers accommodation</p>	1 Project Overview	2.2.9 Energy
	<p>details of energy infrastructure requirements, for all components of the Project, including fuel storage</p>	1 Project Overview	2.2.9 Energy

ToR (section)	Information Required	EIS Volume	EIS Section
	consideration of alternative (renewable) sources of energy and justification of selected option	1 Project Overview	2.2.9 Energy
	any initiatives to improve energy efficiency and/or reduce emissions to air.	1 Project Overview	2.2.9 Energy
2.2.9 Air and noise emissions	Provide relevant information with respect to air quality and noise emissions associated with the Project, including but not limited to: an inventory of any emissions to air resulting from the Project (e.g. dust, machinery, vehicles, gases/vapours, odours, etc.) expected noise levels associated with the Project construction and operation, including timing and duration location of nearest sensitive receptors reporting requirements and compliance with relevant health and/or environmental standards target thresholds with reference to regulatory industry-standard, health-related safe-limits, or aspirational parameter levels.	1 Project Overview	2.2.10 Air & Noise Emissions 4.6 Air, Greenhouse Gases & Noise Appendix C-3 Air, GHG and Noise Impact Assessment
2.2.10 Workforce and accommodation mining and construction camps	Provide relevant information with respect to the workforce and accommodation, including but not limited to:	1 Project Overview	2.2.11 Workforce & Accommodation 3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds C-10 Economic Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>details of the estimated number of people to be employed, skills base required, and likely sources (local, regional, overseas) for the workforce during construction, operation and decommissioning and closure phases</p>	<p>1 Project Overview</p>	<p>2.2.11 Workforce & Accommodation</p> <p>3.4 Socio-Economic Environment</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>C-10 Economic Impact Assessment</p>
	<p>an outline of a strategy for engaging with local Aboriginal communities to facilitate employment on the Project. This should include the delivery of training, the identification of suitable roles, and a discussion of how cultural values will be accommodated</p>	<p>1 Project Overview</p>	<p>2.2.11 Workforce & Accommodation</p> <p>3.4 Socio-Economic Environment</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>Appendix C-9 Social Impact Assessment & Community Engagement</p>
	<p>The number of people that may be employed to manage or undertake environmental duties on the site, including the specific qualifications and the level of experience with mining or other related activities</p>	<p>1 Project Overview</p>	<p>2.2.11 Workforce & Accommodation</p> <p>3.4 Socio-Economic Environment</p>

ToR (section)	Information Required	EIS Volume	EIS Section
			4.7 Social, Economic & Cultural Surrounds
	discuss arrangements for transport of workers to and from Project areas, including air services required	1 Project Overview	2.2.11 Workforce & Accommodation 3.4 Socio-Economic Environment Appendix C-2 Traffic & Transport Impact Assessment
	layout of the construction camp and accommodation village with respect to the work sites and mining and processing operations	1 Project Overview	2.2.11 Workforce & Accommodation 3.4 Socio-Economic Environment
	requirements for licensing, food preparation and storage.	1 Project Overview	2.2.11 Workforce & Accommodation Appendix C-13 Relevant Legislation

ToR (section)	Information Required	EIS Volume	EIS Section
2.2.11 Ancillary infrastructure	Provide construction and operational information regarding ancillary infrastructure, including, but not limited to: telecommunications airstrip any existing ancillary infrastructure that could be utilised by the Project	1 Project Overview	2.2.12 Ancillary Infrastructure
2.3 Closure and rehabilitation	The EIS should outline concepts for mine closure that take into account results of materials characterisation, data on the local environmental and climatic conditions, and consideration of potential impacts through contaminant pathways and environmental receptors. The EIS should:	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	describe proposed rehabilitation, decommissioning, closure and relinquishment for all aspects of the Project on completion of mining / operations on individual sites, including any progressive rehabilitation	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	demonstrate that ecologically sustainable mine closure can be achieved, consistent with agreed post-mining outcomes and land uses, and without unacceptable liability to the Territory and how this will be monitored in the long term,	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	The EIS should discuss alternate options for rehabilitation and closure and justify the proposed option.	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>The EIS should include a conceptual Mine Rehabilitation and Closure Plan (MRCP), specific to the Project. The conceptual MRCP should include description of:</p> <ul style="list-style-type: none"> draft closure criteria and future land tenure and land-use arrangements draft protocols for securing a safe and stable mine-site proposed staging and timing of rehabilitation and closure removal of plant, equipment, infrastructure, water storages, and methods proposed for stabilisation of affected areas proposed methods for topsoil management, and soil profile reconstruction, with demonstration of their effectiveness for rehabilitating disturbed areas revegetation strategies for disturbed sites measures to ensure soil stabilisation against erosion, to a level similar to comparable landforms in surrounding undisturbed areas contingencies to make landforms and mine components secure and non-polluting proposed final topographic and drainage morphology, including design concepts and methods to be used. proposed funding and management arrangements, including responsibilities for post-closure. 	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	<p>The conceptual MRCP should identify risks to the successful rehabilitation and closure of the Project, including risks to prescribed closure timeframes, including:</p>	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	closure timeframes and objectives and the Project not realising its projected outcomes (i.e. delays, unexpected or forced closure, etc.)	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	risks that the Project may create an ongoing environmental, social and/or economic legacy if operations are required to cease ahead of schedule due to unforeseen circumstances prior to the planned closure and rehabilitation of the site	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	the post-closure risk assessment should include a discussion of the effects of:	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan
	changes in the assumptions used as a basis for the post-closure risk assessment natural events, including earthquakes, rainfall events, fire and flood.	1 Project Overview	2.3 Closure & Rehabilitation 5.1.H Draft Mine Rehabilitation & Closure Plan Appendix C-11 Risk Assessment Report
	The conceptual MRCP should include conceptual Care and Maintenance commitments that include measures outlining how the Proponent will maintain its environmental obligations should the Project be temporarily	1 Project Overview	2.3 Closure & Rehabilitation

ToR (section)	Information Required	EIS Volume	EIS Section
	or unexpectedly closed or suspended at any stage during the life of the Project		5.1.H Draft Mine Rehabilitation & Closure Plan
2.4 Approvals and conditions	The EIS must provide information on requirements for approval or conditions that apply, or that the Proponent reasonably believes are likely to apply, to the Project, including, but not limited to:	1 Project Overview	2.4 Approvals & Conditions 1.7 The Environmental Impact Statement Process Appendix C-13 Relevant Legislation
	a description of any approval that has been obtained from a State, Territory or Commonwealth agency or authority	1 Project Overview	2.4 Approvals & Conditions 1.7 The Environmental Impact Statement Process Appendix C-13 Relevant Legislation
	a summary of current agreements between the Proponent and the Northern Territory Government, and/or the Australian Government, and/or other stakeholders, including Traditional Owners and/or land managers	1 Project Overview	2.4 Approvals & Conditions 1.7 The Environmental Impact Statement Process Appendix C-13 Relevant Legislation
	a statement identifying additional approvals that are required	1 Project Overview	2.4 Approvals & Conditions 1.7 The Environmental Impact Statement Process

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-13 Relevant Legislation
	<p>a description of the monitoring, enforcement and review procedures that apply, or are proposed to apply, to the Project.</p>	1 Project Overview	<p>2.4 Approvals & Conditions</p> <p>1.7 The Environmental Impact Statement Process</p> <p>5.1 Draft Environmental Management Plan</p> <p>Appendix C-13 Relevant Legislation</p>
	<p>When identifying the individual approval(s), certificates, permits etc. the Proponent must include details of the approval(s), certificates, permits etc., including any conditions imposed. Consideration should be given, but not limited to, the following legislation:</p> <p><i>Aboriginal Land Rights Act 1976</i></p> <p><i>Environment Protection and Biodiversity Conservation Act 1999</i></p> <p><i>Environmental Assessment Act and Environmental Assessment Administrative Procedures</i></p> <p><i>Heritage Act</i></p> <p><i>Mining Management Act</i></p> <p><i>Northern Territory Aboriginal Sacred Sites Act</i></p> <p><i>Public and Environmental Health Act and Regulations</i></p> <p><i>Territory Parks and Wildlife Conservation Act</i></p> <p><i>Waste Management and Pollution Control Act</i></p>	1 Project Overview	<p>2.4 Approvals & Conditions</p> <p>1.7 The Environmental Impact Statement Process</p> <p>Appendix C-13 Relevant Legislation</p>

ToR (section)	Information Required	EIS Volume	EIS Section
	<i>Water Act, and Work Health and Safety (National Uniform Legislation) Act.</i>		
3 Existing Environment			
3.1 Physical environment	weather and climate (e.g. rainfall patterns [magnitude and seasonality], temperature, humidity, wind, climate extremes, and any seasonal conditions [e.g. floods or dust storms], which may influence the operation and/or rehabilitation, etc.)	1 Project Overview	3.1.1 Weather & Climate 4.6 Air, greenhouse & noise
	regional and significant topography and geomorphology	1 Project Overview	3.1.2 Regional Topography 3.1.3 Regional Geology
	regional geology (e.g. major units, geotechnical surveys, seismic stability, significant geological properties that may influence stability, occupational health and safety, etc.)	1 Project Overview	3.1.3 Regional Geology 2.2 Project Components

ToR (section)	Information Required	EIS Volume	EIS Section
	soil types and land unit(s), including details of any limiting properties of soil and substrate types (e.g. susceptibility to erosion, waterlogging) in the Project footprint	1 Project Overview	3.1.4 Soil Types & Land Units 5.1.F Draft Erosion & Sediment Control Plan
	surface water, including: major and minor drainage lines (permanent and ephemeral) catchment boundaries surface water flow directions and rates water reservoirs (natural and artificial) wetlands areas of periodic inundation beneficial uses surface water quality, including temporal variations	1 Project Overview	3.1.5 Surface Water 4.4 Hydrological Processes Appendix C-5 Surface Water Impact Assessment
	groundwater aquifers and hydrogeological properties, including: surface connections via springs or recharge zones local and regional aquifers depth to water tables, including temporal variation.	1 Project Overview	3.1.5 Surface water 3.1.6 Groundwater 4.4 Hydrological Processes Appendix C-6 Groundwater
3.2 Biological environment	The EIS should describe and rate biological values including fauna, flora and vegetation communities of the Project area and local region. The EIS should include details of the scope, survey/program timing (survey season/s), locations and methods, to demonstrate appropriate and sufficient survey effort. At a minimum, surveys should be in accordance with the Northern Territory ⁴ and Australian Government ⁵ guidelines. Include details of:	1 Project Overview	3.2 Biological Environment 4.1 Terrestrial Flora & Vegetation 4.3 Terrestrial Fauna

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.A Draft Biodiversity Management Plan Appendix C-7 Flora and Fauna
	how surveys are consistent with (or a justification for divergence from) published Northern Territory and Australian Government guidelines and policy statements.	1 Project Overview	3.2 Biological Environment 4.1 Terrestrial Flora & Vegetation 4.3 Terrestrial Fauna Appendix C-7 Flora and Fauna
	The EIS should describe, quantify and map, where relevant:		
	details of vegetation community types occurring on and adjacent to the Project location	1 Project Overview	4.1 Terrestrial Flora & Vegetation
	significant or sensitive vegetation types and/or ecosystems within the Project area, including areas already cleared or disturbed (if any)		4.3 Terrestrial Fauna
	the presence or likely presence of species listed under the EPBC Act and/or the Territory Parks and Wildlife Conservation Act within the Project area and in any areas that may be impacted by the Project		Appendix C-7 Flora and Fauna
	details of the significance, presence and extent of <i>Eremophila cordatisepala</i>		

ToR (section)	Information Required	EIS Volume	EIS Section
	location and description of suitable habitat for listed species, including the locations of historic records and consideration of habitat suitable for breeding, foraging, aggregation or roosting		
	location and description of aquatic ecosystems or groundwater dependent ecosystems, including details of the likelihood of the presence and significance of subterranean fauna, likely to be affected by the Project		
	the presence, or likely occurrence, of introduced and invasive species (both flora and fauna) within and adjacent to the Project area, and regionally, including weed species declared under the Weed Management Act.		
	The EIS should include the results of a comprehensive baseline fauna and flora survey of areas identified for disturbance, including vegetation adjacent to the project disturbance footprint that may be at risk of indirect impacts. The surveys should be undertaken by a suitably qualified and experienced person that has demonstrated experience in the surveying for and the identification of species in the Northern Territory.	1 Project Overview	4.1 Terrestrial Flora & Vegetation 4.3 Terrestrial Fauna 5.1 Draft Environmental Management Plan Appendix C-7 Flora and Fauna
3.3 Cultural and historic environment	The EIS should outline the cultural and heritage significance of sites located during archaeological investigations on or near the Project area or that could be impacted by the Project activities. Baseline information should be provided regarding historic or cultural heritage values in the region, including:	1 Project Overview	3.3 Cultural & Historic Environment 4.7 Social, Economic & Cultural Surrounds
	a description and location of Aboriginal and non-Aboriginal sites, places or objects of historic or cultural heritage significance		

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>areas listed on Commonwealth and Northern Territory registers of historic and/or cultural heritage</p>		<p>5.1 Draft Environmental Management Plan</p> <p>Appendix C-8 Archaeological Impact Assessment</p>
	<p>provision of evidence of an Authority Certificate under the Northern Territory Aboriginal Sacred Sites Act or an application under the Act.</p>	<p>1 Project Overview</p>	<p>3.3.5 Approvals, Permits & Clearances</p>
	<p>Archaeological assessment and surveys for sites of historic or cultural heritage value must be undertaken by a suitably qualified person with demonstrated experience in archaeological assessment. No information of a confidential nature, particularly related to anthropological matters relevant to Aboriginal people or groups is to be disclosed in the EIS.</p>	<p>1 Project Overview</p>	<p>3.3 Cultural & Historic Environment</p> <p>Appendix C-8 Archaeological Impact Assessment</p> <p>Appendix D Personnel Qualifications & Experience</p>
	<p>The EIS must outline consultations with Aboriginal stakeholders and Traditional Owners for all areas potentially affected by the Project. Determination and details should be provided of current Traditional Owner utilisation of Project areas, and spiritual/cultural significance of potentially impacted areas.</p>	<p>1 Project Overview</p>	<p>3.3 Cultural & Historic Environment</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>Appendix C-9 Social Impact Assessment and Community Engagement</p>

ToR (section)	Information Required	EIS Volume	EIS Section
	The EIS should provide information on the current status of any approvals, permits or clearances in relation to the protection of heritage items or places.	1 Project Overview	3.3 Cultural & Historic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-8 Archaeological Impact Assessment
3.4 Socio-economic environment	The EIS should include a brief description of the current population, demography and socio-economic aspects of the region. The following are suggestions that may assist with highlighting the social and economic value of the Project and are not intended to result in the inappropriate disclosure of confidential or sensitive information:	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social Impact Assessment and Community Engagement Appendix C-10 Economic Impact Assessment
	key stakeholders	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-9 Social Impact Assessment and Community Engagement
	a summary of the Project's economic feasibility	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment
	estimated capital and annual operational expenditure	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment
	details of the financial capacity to implement the Project, potential risks to project implementation and associated proposed mitigation measures, including the capacity to cost for operation and maintenance activities	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
	estimated total project revenue for the duration of the Project (to provide the economic scale of the Project)	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment
	estimated overall tax	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment
	total contribution to Gross State Product and Gross Domestic Product over the economic life of the Project	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>opportunities available to regional centres based on the activity generated by the Project (construction, operation and rehabilitation)</p>	<p>1 Project Overview</p>	<p>3.4 Socio-Economic Environment</p> <p>4.7 Social, Economic & Cultural Surrounds</p> <p>5.1.G Draft Social Impact Management Plan</p> <p>Appendix C-9 Social Impact Assessment & Community Engagement</p>
	<p>estimated workforce and contractor numbers by occupational classification</p>	<p>1 Project Overview</p>	<p>3.4 Socio-Economic Environment</p> <p>2.2.11 Workforce & Accommodation</p>
	<p>overall employment training proposed during construction, operation and rehabilitation</p>	<p>1 Project Overview</p>	<p>3.4 Socio-Economic Environment</p> <p>2.2.10 Workforce & Accommodation</p> <p>4.7 Social, Economic & Cultural Surrounds</p>

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.G Draft Social Impact Management Plan
	planned Aboriginal employment, training, participation and other potential benefits	1 Project Overview	3.4 Socio-Economic Environment 2.2.10 Workforce & Accommodation 4.7 Social, Economic & Cultural Surrounds 5.1.G Draft Social Impact Management Plan
	availability of goods and services	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-10 Economic Impact Assessment
	community and economic value of any residual infrastructure, such as roads, following the life of the Project, and	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-10 Economic Impact Assessment
	other contributions to local communities	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social Impact Assessment and Community Engagement Appendix C-10 Economic Impact Assessment
	The EIS should include a balanced summary of the social and economic value (positive and negative) of the Project on a regional, state and national scale.	1 Project Overview	3.4 Socio-Economic Environment 4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social Impact Assessment and Community Engagement Appendix C-10 Economic Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
4 Impact Assessment			
	The EIS should be undertaken with specific emphasis on the identification, analysis and mitigation of potential environmental impacts and risks through a whole-of-project impact and risk assessment. Through this process the EIS should:	2 Impact Assessment	4 Impact Assessment
	transparently identify any inherent environmental impacts associated with the Project including potential direct, indirect and cumulative environmental impacts	2 Impact Assessment	4 Impact Assessment
	evaluate the significance of the potential impacts and risks in a local and regional context	2 Impact Assessment	4 Impact Assessment
	identify management measures to avoid and mitigate environmental impacts and risks, and monitoring measures to demonstrate effectiveness in achieving predicted outcomes	2 Impact Assessment	4 Impact Assessment 5.1 Environmental Management Plan
	identify levels of uncertainty about the assessment and the effectiveness of controls in minimising/mitigating potential impacts	2 Impact Assessment	4 Impact Assessment Appendix C-11 Risk Assessment Report
	explicitly identify those members of the community expected to accept residual significant impacts and their consequences	2 Impact Assessment	4 Impact Assessment 3.4 Socio-Economic Environment

ToR (section)	Information Required	EIS Volume	EIS Section
			4.7 Social, Economic and Cultural Surrounds Appendix C-9 Social Impact Assessment C-11 Risk Assessment Report
	demonstrate that the Project represents best practicable technology	2 Impact Assessment	4 Impact Assessment 5.1 Draft Environmental Management Plan
	demonstrate that the Project is consistent with ecologically sustainable development principles and the National Strategy for Ecologically Sustainable Development.	2 Impact Assessment	4 Impact Assessment 1.5 Project Objectives, Benefits and Justification
Cumulative impacts	An assessment of cumulative environmental impacts should be undertaken that considers the potential impact of the Project in the context of existing developments, and reasonably foreseeable future developments. The impact and risk assessment should consider and discuss cumulative impacts, where relevant, and account for impacts on an appropriate scale, recognising that:	2 Impact Assessment	4.9 Cumulative Impacts Appendix C-11 Risk Assessment Report

ToR (section)	Information Required	EIS Volume	EIS Section
	landscape change originates not only from single projects and management actions, but also from complex and dynamic interactions of multiple past, present and future management actions	2 Impact Assessment	4.9 Cumulative Impacts C-11 Risk Assessment Report
	biophysical, social and economic change accumulates through additive or interactive (or synergistic) processes. The aggregate impact of multiple actions on the environment can be complex and may result in impacts that are more significant because of interactive processes	2 Impact Assessment	4.9 Cumulative Impacts C-11 Risk Assessment Report
	any given action does not operate in isolation. The most significant changes are often not the result of the direct effects of an individual action, but from the combination of multiple minor effects over time.	2 Impact Assessment	4.9 Cumulative Impacts C-11 Risk Assessment Report
4.1 Identified preliminary environmental factors			
4.1.1 Terrestrial flora and vegetation			
4.1.1.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to flora and vegetation values including activities with direct impacts such as land clearing, the use or generation of toxic substances, and activities that have indirect impacts such as water extraction.	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation C-11 Risk Assessment Report
4.1.1.2 Potential impacts and risks	The EIS should describe potential impacts and risks to flora and vegetation values, including (but not limited to) loss of habitat through clearing, erosion and sedimentation, pollution, changes to hydrology and the introduction of exotic species.	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation C-11 Risk Assessment Report

ToR (section)	Information Required	EIS Volume	EIS Section
	The EIS should provide information to assess potential impacts and risks to flora and vegetation values including (but not limited to):	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation C-11 Risk Assessment Report
	details of the area and location of any land to be cleared and/or disturbed as a result of the project and a description of the vegetation communities and any associated flora species of conservation significance	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation C-7 Flora and Fauna
	details of vegetation and flora that have the potential to be impacted by ground water drawdown	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation C-6 Groundwater
	details of vegetation communities with the potential to be impacted by dust generated during the project	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation
	fire history of the site.	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 3.2 Biological Environment 5.1.B Draft Bushfire Management Plan Appendix C-7 Flora and Fauna
4.1.1.3 Mitigation and monitoring	The EIS should outline how the Proponent will minimise, monitor and manage potential impacts and risks on flora and vegetation, including:	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-11 Risk Assessment Report
	extent of clearing, particularly sensitive vegetation communities and species of conservation significance	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 5.1.A Draft Biodiversity Management Plan Appendix C-7 Flora and Fauna
	effects of erosion and sedimentation	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 5.1.A Draft Biodiversity Management Plan 5.1.F Draft Erosion and Sediment Control Plan
	substances that have potential to be toxic to plants	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 5.1.A Draft Biodiversity Management Plan
	changes to hydrology	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.A Draft Biodiversity Management Plan
	the potential introduction and/or spread of plants declared under the Weed Management Act	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 5.1.A Draft Biodiversity Management Plan
	changes to fire regime	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation
	any measure identified as appropriate to mitigate other potential impact or risk to flora and vegetation		5.1.A Draft Biodiversity Management Plan 5.1.B Draft Bushfire Management Plan
	any additional monitoring to detect unanticipated impacts to flora and vegetation	2 Impact Assessment	4.1 Terrestrial Flora and Vegetation 5.1.A Draft Biodiversity Management Plan
	the expected flora and vegetation post mining (rehabilitation), including post-mining monitoring and reporting to be used to evaluate rehabilitation success and progress toward achieving closure objectives and contingency measures to be implemented in the event that monitoring demonstrates that rehabilitation closure objectives are not being met.	2 Impact Assessment	4.1 Terrestrial Flora & Vegetation 5.1.A Draft Biodiversity Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.H Draft Mine Closure & Rehabilitation Plan
	The EIS should contain a draft Biodiversity Management Plan (BMP) that outlines clear and concise methods to mitigate likely impacts on biodiversity. All mitigation and monitoring measures should be substantiated and in accordance with best practice advice from relevant Northern Territory and Australian Government advisory agencies.	2 Impact Assessment	4.1 Terrestrial Flora & Vegetation 5.1.A Draft Biodiversity Management Plan
4.1.2 Terrestrial environmental quality			
4.1.2.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to terrestrial environmental quality including activities that involve	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
4.1.2.2 Potential impacts and risks	Describe potential impacts and risks to terrestrial environmental quality including those related to loss of soils from erosion and changes to surface water hydrology. The EIS should outline proposed vegetation clearing and impacts to surface water hydrology.	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment

ToR (section)	Information Required	EIS Volume	EIS Section
4.1.2.3 Mitigation and monitoring	The EIS should outline how the potential impacts on terrestrial environmental quality are to be avoided, minimised or mitigated, monitored and managed.	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	An draft Erosion and Sediment Control Plan (ESCP) should be prepared, which outlines prescriptive measures that will be implemented to avoid, minimise, mitigate and manage the movement and deposition of sediment. The ESCP should be prepared by a suitably qualified expert that has demonstrated experience in erosion and sediment control planning. The ESCP should outline the proposed control and maintenance measures for both construction and occupancy stages of the Project and include maps and diagrams that indicate where control measures are proposed to be installed.	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion and Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	The ESCP should be developed in accordance with relevant guidelines and should address factors, including but not limited to:	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion and Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	timing and duration of works	2 Impact Assessment	4.2 Terrestrial Environmental Quality

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	vegetation clearance methods	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	management of stormwater flows, including external catchment contributions	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	measures to minimise disturbance of creek/river banks at any service and waterway crossings	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-5 Surface Water Impact Assessment
	measures to prevent exacerbating existing erosion gullies both on and adjacent to the site	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	measures to rehabilitate existing erosion gullies both on and adjacent to the site	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan Appendix C-5 Surface Water Impact Assessment
	vehicle access drainage and surface protection, stabilisation, earthworks and revegetation required for rehabilitation	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan 5.1.H Draft Mine Rehabilitation & Closure Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	The draft ESCP should outline details of monitoring programs that would be implemented throughout the life of the Project to determine the effectiveness of the mitigation measures. The monitoring programs should identify clear thresholds and contingency measures, should activities affect water resources.	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.F Draft Erosion & Sediment Control Plan
	The EIS should describe how the quality of land and soils are maintained post mining including post-mining monitoring and reporting to be used to evaluate rehabilitation success and progress toward achieving closure objectives and contingency measures to be implemented in the event that monitoring demonstrates that rehabilitation closure objectives are not being met.	2 Impact Assessment	4.2 Terrestrial Environmental Quality 5.1.H Draft Mine Rehabilitation & Closure Plan
4.1.3 Terrestrial fauna			
4.1.3.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to terrestrial fauna values including activities with direct impacts such as those that involve clearing and disturbance to habitat, traffic movements and hazardous material; and activities with indirect impacts such as those that involve changes to habitat through alteration to hydrology or potential to introduce exotic species.	2 Impact Assessment	4.3 Terrestrial Fauna Appendix C-7 Flora & Fauna Appendix C-11 Risk Assessment Report
4.1.3.2 Potential impacts and risks	Describe potential impacts and risks to terrestrial fauna values including the impact of loss of habitat through clearing, and risks from erosion and sedimentation, changes to hydrology and the introduction of exotic species.	2 Impact Assessment	4.3 Terrestrial Fauna Appendix C-7 Flora & Fauna
	The EIS should outline:	2 Impact Assessment	4.3 Terrestrial Fauna
	the extent of clearing and disturbance/change to fauna habitat (in the context of the extent of the habitat), with a particular focus on fauna species of conservation significance	2 Impact Assessment	4.3 Terrestrial Fauna Appendix C-7 Flora & Fauna

ToR (section)	Information Required	EIS Volume	EIS Section
	traffic movements	2 Impact Assessment	4.3 Terrestrial Fauna
	hazardous material that fauna could come in contact with	2 Impact Assessment	4.3 Terrestrial Fauna
	air emissions that may impact fauna.	2 Impact Assessment	4.3 Terrestrial Fauna 4.6 Air, GHG & Noise
4.1.3.3 Mitigation and monitoring	The EIS should outline how the Proponent will avoid, minimise or mitigate, monitor and manage potential impacts on terrestrial fauna, including impacts and risks from: <ul style="list-style-type: none"> vegetation clearing changes to hydrology erosion and sedimentation traffic hazardous materials plants declared under the Weed Management Act. 	2 Impact Assessment	4.3 Terrestrial Fauna 5.1 Draft Environmental Management Plan 5.1.A Draft Biodiversity Management Plan 5.1.C Draft Waste Management Plan 5.1.D Draft Water Management Plan 5.1.F Draft Erosion & Sediment Control Plan
	The EIS should contain a draft Biodiversity Management Plan (BMP) that outlines clear and concise methods to mitigate likely impacts to biodiversity. All mitigation and monitoring measures should be substantiated and in accordance with best practice advice from relevant Northern Territory and Australian Government advisory agencies.	2 Impact Assessment	4.3 Terrestrial Fauna 5.1.A Draft Biodiversity Management Plan
4.1.4 Hydrological processes			

ToR (section)	Information Required	EIS Volume	EIS Section
4.1.4.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to hydrological processes such as activities that result in changes to surface hydrology and water extraction.	2 Impact Assessment	4.4.1 Hydrological Processes Appendix C-5 Surface Water Appendix C-6 Groundwater
4.1.4.2 Potential impacts and risks	Describe potential impacts and risks from changes to hydrological processes including impacts on the environment and other water users.	2 Impact Assessment	4.4.2 Hydrological Processes Appendix C-5 Surface Water Appendix C-6 Groundwater
	The EIS should describe:		
	water demand requirements of the Project (a water balance and account)	2 Impact Assessment	4.4.2 Hydrological Processes 5.1.D Draft Water Management Plan Appendix C-5 Surface Water
	water supply source(s), volumes and sustainability	2 Impact Assessment	4.4.2 Hydrological Processes 5.1.D Draft Water Management Plan Appendix C-5 Surface Water
	proposed changes to the movement of surface waters		
other water uses including groundwater dependent ecosystems and the environment.			
4.1.4.3 Mitigation and monitoring	The EIS should describe proposed management of water for the Project for all mine-life stages and seasons including post mining, according to its source, quality, volume, end use or other parameters, including (but not limited to) measures to:	2 Impact Assessment	4.4.3 Hydrological Processes 5.1.D Draft Water Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.E Draft Groundwater Management Plan
	safeguard surface and groundwater resources and their environmental values, including options for minimising water use	2 Impact Assessment	4.4.3 Hydrological Processes 5.1.D Draft Water Management Plan 5.1.E Draft Groundwater Management Plan
	ensure the protection and resilience of water dependent ecosystems	2 Impact Assessment	4.4.3 Hydrological Processes 4.1 Terrestrial Flora and Vegetation 5.1.E Draft Groundwater Management Plan
4.1.5 Inland waters environmental quality			
4.1.5.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to inland waters environmental quality. This includes activities with the potential to contaminate water with chemicals, mine waste and sediment, and that result in changes to surface water hydrology.	2 Impact Assessment	4.5.1 Inland Waters Environmental Quality Appendix C-1 Acid Mine Drainage Appendix C-5 Surface Water
4.1.5.2 Potential impacts and risks	Describe potential impacts and risks to inland waters environmental quality and sensitive receptors.	2 Impact Assessment	4.5.2 Inland Waters Environmental Quality

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>The EIS should include a conceptual site model describing potential sources, pathways, receptors, and fate of any potentially contaminated waters from the Project. The model should be of sufficient detail for the general reader to understand the source(s) of potential contaminants, the mechanism(s) of their release, the pathway(s) for transport, and the potential for human and ecological exposure to these potential contaminants. The minimum data required to support the model should include, but should not be limited to:</p>	2 Impact Assessment	<p>4.5.2 Inland Waters Environmental Quality</p> <p>Appendix C-6 Groundwater</p>
	<p>relevant laboratory and field testing to characterise the potential physicochemical properties of mine products and infrastructure (e.g. stockpiles, etc.)</p>	2 Impact Assessment	<p>4.5.2 Inland Waters Environmental Quality</p> <p>Appendix C-1 Acid Mine Drainage</p>
	<p>material volume and mass of potential contaminant sources</p>	2 Impact Assessment	4.5.2 Inland Waters Environmental Quality
	<p>hydrogeological characterisation (e.g. groundwater occurrence, direction and rate of flow, etc.)</p>	2 Impact Assessment	<p>4.5.2 Inland Waters Environmental Quality</p> <p>Appendix C-6 Groundwater</p>
	<p>hydrologic characterisation (e.g. surface water flow, seasonality etc.)</p>	2 Impact Assessment	<p>4.5.2 Inland Waters Environmental Quality</p> <p>Appendix C-5 Surface Water Impact Assessment</p>
	<p>baseline water quality (i.e., major cations and anions, metals, metalloids, acidity/alkalinity, etc.) of receiving waters</p>	2 Impact Assessment	<p>4.5.2 Inland Waters Environmental Quality</p> <p>Appendix C-5 Surface Water Impact Assessment</p>

ToR (section)	Information Required	EIS Volume	EIS Section
	biological receptors and their habitats	2 Impact Assessment	4.5.2 Inland Waters Environmental Quality Appendix C-5 Surface Water Impact Assessment
	other complementary technical studies, at an appropriate temporal and spatial scale, used to develop the model, such as: geology hydrology hydrogeology geochemistry biology meteorology engineering/geotechnical.	2 Impact Assessment	4.5.2 Inland Waters Environmental Quality 3.1.3 Geology Appendix C-1 Acid Mine Drainage Appendix C-5 Surface Water Appendix C-6 Groundwater Appendix C-7 Flora and Fauna Appendix C-12 Tailing Storage Facility Design
4.1.5.3 Mitigation and monitoring	The EIS should provide a draft Water Management Plan (WMP) prepared by a suitably qualified expert. All mitigation measures in the WMP should be adequately detailed to demonstrate best practicable management and that environmental values of receiving waters will be maintained. The WMP should include, but not be limited to:	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.E Draft Groundwater Management Plan 5.1.F Draft Erosion and Sediment Control Plan
	proposed management to contain contaminants onsite and details of contingency measures that will be implemented in the event of a spill or leak of chemicals that could impact on downstream water quality	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan
	management of various categories of water (e.g. 'clean', 'dirty' and 'contaminated' -definitions can be provided in the draft EIS) including water quality thresholds triggering management actions	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan
	management of chemicals and hydrocarbons	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality
	management of tailings and associated process water during operations and post closure	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality
	management of problematic waste rock during operations and post-closure	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan Appendix C-1 Acid Mine Drainage
	non-mineral waste management strategies, including reduction, re-use, recycling, storage, transport and disposal of waste	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1.C Draft Waste Management Plan
	management of domestic wastewater and sewage	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1.C Draft Waste Management Plan
	management of process waters	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality
	management of high/extreme rainfall events including Probable Maximum Precipitation and provisions for extreme rainfall and flood events in the management of tailings and waste rock, including erosion protection, management of seepage including sub-drainage and collection sumps	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1.D Draft Water Management Plan
	management of erosion and sedimentation	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.F Draft Erosion and Sediment Control Plan
	construction quality control processes	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.F Draft Erosion and Sediment Control Plan
	measures to avoid the exposure of sensitive biological receptors to contaminants or water of a poor quality which may be harmful	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan
	measures to ensure treatment / neutralisation occurs of hazardous materials to identified safe levels, before any controlled environmental release is considered	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan
	The WMP should include monitoring programs that detail relevant water quality target values based on appropriate guidelines and/or standards and ideally be based on local ambient conditions. The monitoring programs should include:	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1.D Draft Water Management Plan
	methods to monitor the impacts of the Project on surface and groundwater quality and quantity during mine operations and beyond mine closure	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1.D Draft Water Management Plan
	monitoring for and management of potential AMD waste rock seepage	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan 5.1.E Draft Groundwater Management Plan
	provisions to notify and respond to environmental and human health risks associated with water quality	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan
	contingency plans to be implemented should monitoring identify an unacceptable impact.	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1 Draft Environmental Management Plan 5.1.D Draft Water Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	The EIS should include how potential impacts and risks to downstream water quality will be managed post-mining, including post-mining monitoring and reporting to be used to evaluate rehabilitation success and progress toward achieving closure objectives and contingency measures to be implemented in the event that monitoring demonstrates that rehabilitation closure objectives are not being met.	2 Impact Assessment	4.5.3 Inland Waters Environmental Quality 5.1.D Draft Water Management Plan 5.1H Draft Mine Closure and Rehabilitation Plan
4.1.6 Air quality and greenhouse gases			
4.1.6.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on air quality, including activities that disturb soil and rock producing dust and emissions, involve emissions from machinery and related to ore processing.	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise
4.1.6.2 Potential impacts and risks	Describe potential impacts and risks to air quality including impacts and risks to the environment and people.	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise
	provide an inventory of any emissions to air resulting from the Project (e.g. dust, machinery, vehicles, gases/vapours, odours, etc.)	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise Appendix C-3 Air, GHG and Noise
	identify and provide the location of sensitive receptors	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise Appendix C-3 Air, GHG and Noise
	include reporting requirements and compliance with relevant health and/or environmental standards.	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-3 Air, GHG and Noise
4.1.6.3 Mitigation and monitoring	The EIS should describe management of air quality, including:	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise 5.1 Draft Environmental Management Plan Appendix C-3 Air, GHG and Noise
	management of dust, including target thresholds with reference to regulatory industry-standard, health-related safe-limits, or aspirational parameter levels	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise 5.1 Draft Environmental Management Plan Appendix C-3 Air, GHG and Noise
	management of any gas/vapours/odours	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise 5.1 Draft Environmental Management Plan Appendix C-3 Air, GHG and Noise
	strategies for minimising emissions from burning fossil fuels	2 Impact Assessment	4.6 Air, Greenhouse Gases and Noise

ToR (section)	Information Required	EIS Volume	EIS Section
			5.1 Draft Environmental Management Plan Appendix C-3 Air, GHG and Noise
	management of air quality post mining, including post-mining monitoring and reporting to be used to evaluate rehabilitation success and progress toward achieving closure objectives and contingency measures to be implemented in the event that monitoring demonstrates that rehabilitation closure objectives are not being met.	2 Impact Assessment	5.1 Draft Mine Rehabilitation and Closure Plan 5.1.F Draft Erosion and Sediment Control Plan
4.1.7 Social, economic and cultural surrounds			
4.1.7.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to the social, economic and cultural surrounds including those that result in an increase in population and economic activity, interaction with tourists and isolated communities and with potential to impact or disturb sacred sites or areas of traditional resource use.	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-8 Archaeological Appendix C-9 Social & Community Engagement Appendix C-10 Economic Appendix C-11 Risk Assessment Report
4.1.7.2 Potential impacts and risks	Describe potential impacts and risks to the local, regional and Territory social and economic surrounds in an Economic and Social Impact Assessment (ESIA). The ESIA should:	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social & Community Engagement

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-10 Economic
	document the economic and social impacts of the project	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social & Community Engagement Appendix C-10 Economic
	describe increased traffic and use of existing road networks and interaction with other users of the road networks	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social & Community Engagement Appendix C-10 Economic
	include a Traffic Impact Assessment in accordance with Austroads Guide to Traffic Management Part 12: Traffic Impacts of Developments	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social & Community Engagement Appendix C-10 Economic
	assess the risks of the Project not realising its projected economic and social benefits.	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds Appendix C-9 Social & Community Engagement

ToR (section)	Information Required	EIS Volume	EIS Section
			Appendix C-10 Economic Appendix C-11 Risk Assessment Report
4.1.7.3 Mitigation and monitoring	A draft Social Impact Management Plan (SIMP) should be prepared that addresses any risks identified through the ESIA. At a minimum, the SIMP should:	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1.G Draft Social Impact Management Plan
	describe how the Proponent proposes to manage any identified economic, social, cultural risks arising from the Project, or its associated workforce	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan Appendix C-11 Risk Assessment Report
	describe how potential local and regional business and employment opportunities related to the Project will be identified and managed	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1.G Draft Social Impact Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	include a mechanism for monitoring and reporting any identified potential socio-economic and cultural impacts	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan
	include measures to mitigate negative economic and social impacts on the locality and region	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan
	provide outcome and assessment criteria that will give early warning in the event that management and mitigation measures are not achieving the outcomes and benefits identified and expected by the Proponent	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan

ToR (section)	Information Required	EIS Volume	EIS Section
	provide a stakeholder communications strategy including identification of, and ongoing consultation and negotiations with, all relevant stakeholders, ensuring the full range of community viewpoints are sought and included in the EIS	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan
	provide details of the Project's requirements to apply to, or applications already made to, the NT Minister for Tourism and Culture to disturb or destroy a prescribed archaeological place and/or object under the Heritage Act	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan 5.1.G Draft Social Impact Management Plan Appendix C-8 Archaeological
	outline procedures to avoid significant sites and protect key sites during construction, operation and decommissioning work	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds
	describe procedures for the discovery of surface or sub-surface objects of interest/potential cultural significance during the course of the Project.	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1 Draft Environmental Management Plan Appendix C-8 Archaeological

ToR (section)	Information Required	EIS Volume	EIS Section
	The EIS should outline plans for rehabilitation and closure that ensures risks to social parameters, including traditional owners, will be as low as is reasonably achievable. This should include post-mining monitoring and reporting to be used to evaluate rehabilitation success and progress toward achieving closure objectives and describe contingency measures to be implemented in the event that monitoring demonstrates that rehabilitation closure objectives are not being met.	2 Impact Assessment	4.7 Social, Economic & Cultural Surrounds 5.1.G Draft Social Impact Management Plan 5.1.H Draft Mine Rehabilitation & Closure Plan
4.1.8 Human health			
4.1.8.1 Relevant activities	The EIS should describe proposed activities that may have a significant impact on and/or pose a risk to human health during construction, operation and closure phases of the project.	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report
4.1.8.2 Potential impacts and risks	The EIS should include an assessment of the potential impacts and risks to people, associated with the construction, operation and closure phases of the Project, and the storage and transport of materials to and from the sites so as to demonstrate that:	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report
	the Proponent is fully aware of the potential impacts and risks to human health associated with all aspects of the Project	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report
	the prevention and mitigation of potential impacts and risks to human health are properly addressed in the design specifications	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report

ToR (section)	Information Required	EIS Volume	EIS Section
	<p>the potential impacts and risks can and will be managed effectively during the construction, operation and closure phases of the Project, including safety risks associated with:</p> <ul style="list-style-type: none"> fire, including combustible materials and wildfire emergency situations and exclusions/evacuation zones hazardous materials exposure hazards associated with the transportation of personnel, construction materials, consumables and dangerous goods. 	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report
4.1.8.3 Mitigation and monitoring	<p>Detail preventative, management, treatment and monitoring strategies used to minimise the impacts of the Project on human health. Describe the emergency plans and response procedures developed as a contingency in the event of an emergency or accident (e.g. chemical spillages, leaks, fire and explosions, traffic accident, etc.), including management of all emergencies that may impact on the Project area, its surrounds, personnel or the public. Responsibilities and liabilities in such an event should be specified.</p>	2 Impact Assessment	4.8 Human Health & Safety C-11 Risk Assessment Report

Table A-2: Environmental Management

5 Environmental management			
	<p>The specific safeguards and controls proposed to be employed to minimise or remedy environmental impacts identified in the impact assessment process are to be included in a draft Environmental Management Plan (EMP). The EMP should be strategic, describing a framework for continuing management, mitigation and monitoring programs for the significant environmental impacts of the Project.</p>	3 Environmental Management	5.1 Draft Environmental Management Plan

	<p>The scope, content and structure of the EMP will be a function of the outcomes of the environmental impact assessment and determined by the significance of the potential environmental impacts and risks. The EMP should not be prepared in isolation but should be consistent and integrated with the principles of an environmental management system. The EMP should include specialised management plans where it is necessary to provide a high level of operational detail. As much detail as is practicable should be provided to enable adequate assessment of the proposed environmental management practices and procedures.</p> <p>The EMP needs to address the Project phases (e.g. construction, operation and decommissioning/rehabilitation) separately. It must state the environmental objectives, performance criteria, monitoring, reporting, corrective action, necessary resourcing, responsibility and timing for each environmental issue.</p> <p>Further information on the development of an EMP is available in the NT EPA's Guidelines for the Preparation of an Environmental Management Plan.</p>		
--	--	--	--