Proposal Content Document

Table 1: General proposal content description

Proposal title	Caravel Copper Project
Proponent name	Caravel Minerals Limited
Short description	Caravel Minerals Limited is seeking to develop the Caravel Copper Project, located in the Western Australian (WA) Wheatbelt approximately 150 km north of Perth. The Proposal will produce copper concentrate, which will be trucked to port. The Proposal includes mine pits, waste rock landforms, tailings storage, ore processing and transfer infrastructure and associated infrastructure such as workshops, laydown areas, landfill, communications, offices, ablutions, wastewater treatment, fuel storage, renewable energy and water storage, and a remote bore field and pipeline network. A long-term accommodation village will be located on site; however, may be located in a surrounding residential area (outside the scope of this Proposal). A temporary construction village will be required to accommodate early works personnel.

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Mine and Associated Infrastructure • Mine Pits • Waste rock dumps • Tailings storage • Topsoil stockpile • Processing plants and stockpiles • Ore transfer infrastructure / conveyors • Renewable energy and water storage • Haul Roads	Figure 3 of the Caravel Copper Project Section 38 Referral Supporting Document	Disturbance of no more than 6,547 within an 8,541 ha Mine Site Development Envelope (MSDE). 679 ha of disturbance (~10%) of the indicative disturbance footprint is being requested as contingency.

• Associated infrastructure including workshops, laydown, landfill, communications, offices, ablutions, wastewater treatment and fuel storage.		
Additional Infrastructure • Borefield Development Envelope (BDE) • Pipeline Development Envelope (PDE)alignment	Figure 2 of the Caravel Copper Project Section 38 Referral Supporting Document	120 ha of disturbance may be required within the PDE and up to 100 ha of disturbance within the BDE.
Construction elements		
Groundwater abstraction	Figure 2 of the Caravel Copper Project Section 38 Referral Supporting Document	Abstraction of no more than 5 GL/annum from the Gillingarra bore fields (unnamed aquifer) and from the fractured rock aquifers within the MSDE for use in construction activities.
Operational elements		
Ore processing	Figure 3 of the Caravel Copper Project Section 38 Referral Supporting Document	Production of up to 62,000 tonnes per annum of copper concentrate.
Energy production	Figure 3 of the Caravel Copper Project Section 38 Referral Supporting Document	Up to 125 megawatts from the South-West Interconnected Network and other power generation plant and equipment on site.
Groundwater abstraction	Figure 2 of the Caravel Copper Project Section 38 Referral Supporting Document	Abstraction of no more than 16 gigalitres/annum from the bore fields in and around Gillingarra (unnamed aquifer) and from the fractured rock aquifers at the mining and processing areas for use in mineral processing, dust suppression and accommodation and ablution activities.
Proposal elements with greenhouse gas emissions		
Construction elements:		
Scope 1 - Diesel Usage and Onsite Power Generation	The Proposal will generate greenhouse gas (GHG) emissions predominantly from fuel combustion and power generation.	

	GHG emissions during the Proposal construction phase were estimated at 38,152 t CO2-e.	
Scope 2 –	None	
Scope 3 -	Scope 3 emissions TBC	
Operation elements:		
Scope 1 - Diesel Usage and Onsite Power Generation	GHG emissions for the Proposal operations phase have been estimated at 3367.7 kilotonnes (kt) CO_2-e over the life of the Proposal, averaging 129 kt CO_2-e per year peaking at 170 kt CO_2-e at peak operating capacity.	
Scope 2 – Offsite Power Generation	Scope 2 emissions TBC	
Scope 3	Scope 3 emissions TBC	
Rehabilitation		
Areas temporarily cleared during the construction phase will be rehabilitated following construction. Final closure and rehabilitation to commence within 1 year of cessation of operations.		
Commissioning		
Commissioning of the processing facility to be undertaken subject to operational limits above.		
Decommissioning		
Removal of all above-surface and buried infrastructure within 2 years of cessation of operations.		
Other elements which affect extent of effects on the environment		
Proposal time*	Maximum project life	30 years
	Construction phase	Approximately 18 months
	Operations phase	28 years
	Decommissioning phase	Approximately 2 years after cessation of operations