

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Bidamina Project
Proponent name	Image Resources NL
Short description	Image Resources NL is seeking to develop a mineral sands project, located approximately 15 km southwest of Regan's Ford in the Wheatbelt region of Western Australia (WA). The Proposal includes dredge mining with the progressive development of a dredge pond, processing facilities, groundwater bores and water management infrastructure, temporary waste dumps, solar drying ponds and associated infrastructure (power supply, accommodation, communications, workshop, laydown, offices etc.).

Table 2: Proposal content elements

Proposal element	Location / description	Maximum extent, capacity or range
Physical elements		
Mine Development Envelope (MDE) – dredge pond, temporary waste dumps, temporary tailings storage facility, processing facilities, solar drying ponds and supporting infrastructure.	See Figure 2 of the Supporting Document	Disturbance of up to 950 ha within the 1,950 ha MDE.
External Infrastructure - may include renewable energy, transport infrastructure upgrades, groundwater abstraction bores and pipeline corridors.	See Figure 3 of the Supporting Document	Disturbance of up to 50 ha within a 75 ha envelope.
Construction elements		
Groundwater abstraction	Yarragadee, Leederville, and / or Lesueur	Abstraction of approximately one Gigalitre (GL) from one or more borefields.
Operational elements		
Heavy Mineral Concentrate production	N/A	Production of approximately 300 kt per annum of HMC.
Mining method	N/A	Dredge mining with progressive backfill to pre-mining levels and rehabilitation.

Groundwater abstraction	Yarragadee, Leederville and / or Lesueur.	Abstraction of approximately 6 GL / year from one or more borefields.
Power generation	Onsite generation, external powerlines, renewable energy or a hybrid of both.	Approximately 10 MW.
Proposal elements with greenhouse gas emissions		
Construction elements:		
Scope 1	Land use change – vegetation clearing: approximately 22 kt CO ₂ -e Plant, equipment: Approximately 8 kt CO ₂ -e Power generation: Approximately 1 kt CO ₂ -e Maximum of: 31 kt CO ₂ -e	
Scope 2	Power generation: Approximately 1 kt CO ₂ -e (if external source utilised).	
Scope 3	N/A.	
Operation elements:		
Scope 1	Land use change – vegetation clearing: less than 35 kt CO ₂ -e/yr Plant, equipment: Less than 9 kt CO ₂ -e/yr Power generation: Less than 45 kt CO ₂ -e/yr Maximum of: 89 kt CO ₂ -e/yr Maximum over life of Proposal: 890 kt CO ₂ -e	
Scope 2	Power generation: Less than 45 kt CO ₂ -e/yr (if external source utilised).	
Scope 3	To be determined.	
Rehabilitation		
Rehabilitation and closure will be progressive. The mine pond will be progressively filled and rehabilitated to pre-mining profile with the pre-existing land use reinstated as mining advances.		
Commissioning		
Commissioning of the processing facility to be undertaken subject to operational limits above.		
Decommissioning		
Removal of all process related infrastructure within 12 months of cessation of operations (excluding periods of care and maintenance).		
Other elements which affect extent of effects on the environment		
Proposal time*	Maximum project life	Approximately 12 years
	Construction phase	Approximately 1 year
	Operations phase	Approximately 10 years

	Decommissioning phase	Approximately 1 year
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