

Template

Proposal Content Document

Table 1: General proposal content description

Proposal title	Greenbushes Lithium Mine: Waste Rock Landforms, Salt Water Gully Dam and additional clearing for infrastructure.
Proponent name	Talison Lithium Australia Pty Ltd
Short description	Expansion of the existing Greenbushes lithium operations to incorporate the S2 WRL, S8 WRL, SWG Dam and additional mine infrastructure.

Table 2: Proposal content elements

Proposal element	Location / description	Existing Proposal extent, capacity or range	Total maximum extent, capacity or range
Physical elements			
Waste rock landforms	Figure 3-1 of EPA Referral Supporting Document.	Clearing of no more than 350 ha of native vegetation within a development envelope of 1989 ha.	Clearing of no more than 512 ha of native vegetation and up to 29 ha of previous mine disturbance and rehabilitated areas within a DE of 2,826 ha.
Water storage dams			
Open pits and haul roads			
Tailings storage facilities			
Topsoil stockpiles			
Ore stockpiles and ROM pad			
Crushing and processing plants			
Ancillary supporting infrastructure			

Proposal element	Location / description	Existing Proposal extent, capacity or range	Total maximum extent, capacity or range
Operational elements			
Damming and abstraction of surface water for mine site water supply.	Figure 3-1 of EPA Referral Supporting Document.	N/A	Abstraction of up to 1 GL/a from Salt Water Gully.
Waste Rock Landform Construction		Waste Rock Landform height of 330 m AHD and area of 355 ha.	WRL height of 330 m AHD and area of 727 ha (includes existing Floyds WRL, S2 WRL and S8 WRL).
Processing Throughput		Processing capacity up to 9.5 Mtpa ore.	Processing capacity of 9.5 Mtpa ore and up to 2.1 Mtpa recovered tailings.
Tailings deposition		Up to 9.5Mtpa	Up to 11.6 Mtpa

Proposal elements with greenhouse gas emissions		
Operation elements: Peak annual average		
Scope 1	Maximum Capacity annual GHG Emissions for 2028: 193,075 tCO ₂ -e	
Scope 2	Maximum Capacity annual Electricity use: 62,060 tCO ₂ -e	
Scope 3	Peak emissions (expected) 2040: 1,719,106 tCO ₂ -e	
Operation elements: Annual average life of mine		
Scope 1	Fuel and Land Clearing: 166,382 tCO ₂ -e per year.	
Scope 2	Electricity use: 60,134 tCO ₂ -e per year.	
Scope 3	Battery manufacture: 1,423,928 tCO ₂ -e per year.	
Total (based on annual average Scope 1 and Scope 2) – 25-year life of mine		
Existing Operation	Proposal	Combined Total
5,368,852 tCO ₂ -e of Scope 1 and Scope 2 emissions over the life of mine.	Increase in Scope 1 and Scope 2 emissions by 520,549 tCO ₂ -e over the life of mine.	5,889,401 tCO ₂ -e of Scope 1 and Scope 2 emissions over the life of mine.

** Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C)*

Rehabilitation and Closure

Progressive rehabilitation will be undertaken over the life of mine. Areas disturbed through implementation of this proposal will be designed to be safe and non-polluting at all stages of construction, and final landform design will promote establishment of native vegetation to support conservation significant species.

Other elements which affect extent of effects on the environment

Proposal time*	Maximum project life		To 2049
	Construction phase		Approx 1 year
	Operations phase		Approx 21 years
	Decommissioning phase		Approx 2 years