

Strategic Environmental Assessment

Bryce Skarratt BHP Billiton Iron Ore Environmental Approvals



Overview

- What is a Strategic Assessment?
- What is the scope of this SEA?
- Why do a Strategic Assessment?
- Process and outcomes
- Timing

Copies of the assessment documents can be found at:

http://www.bhpbilliton.com/society/regulatory

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Strategic Assessments Overview



What is it?



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Strategic Environmental Assessment scope

Development of future mine hubs for the next 30 to 100+ years

- All mining and associated infrastructure
- Central Pilbara focus
- Allows for acquisitions/divestments

Considers cumulative impacts (BHP Billiton Iron Ore and others) of current and proposed developments

Excludes:

Existing approved operations - Yandi, Area C and Newman

Recently referred South Flank project

North Pilbara operations - Yarrie

Port operations



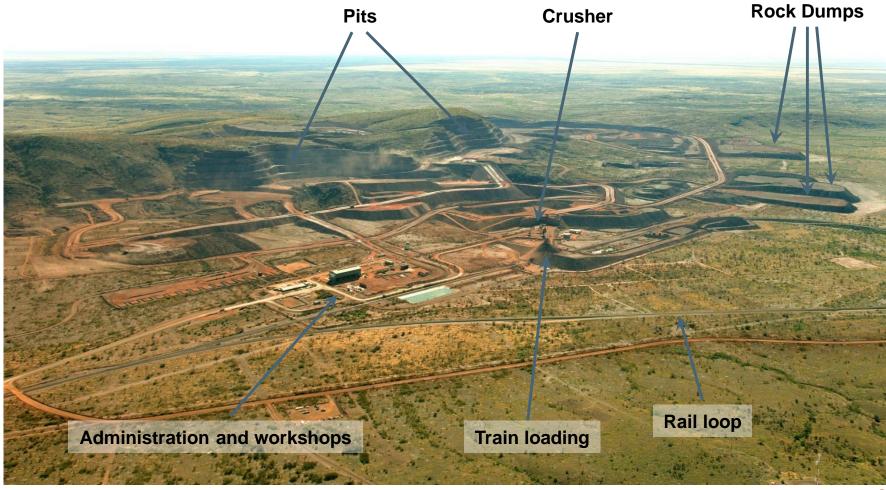






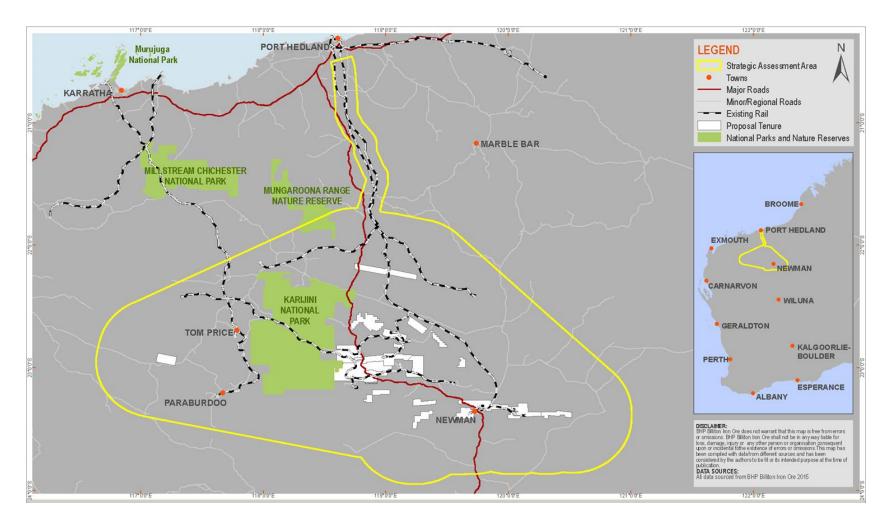


A typical iron ore mine





Strategic Environmental Assessment area



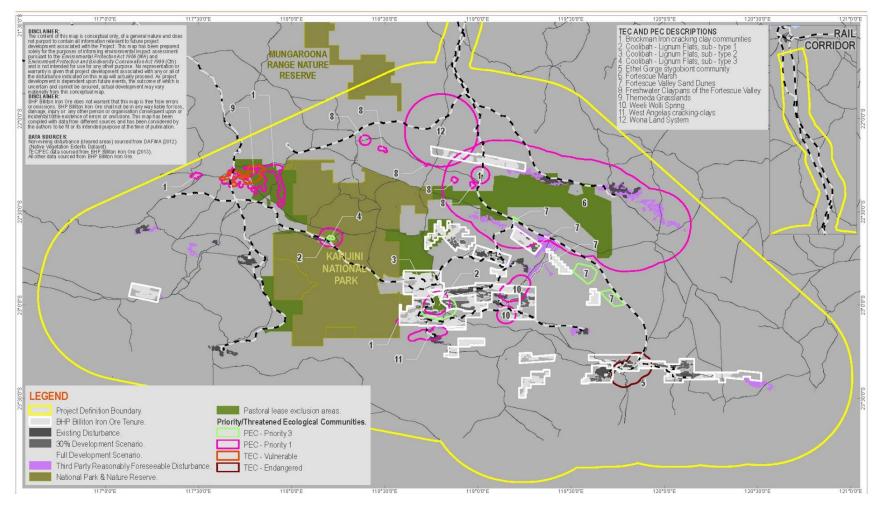


Why a strategic assessment?

Helps guide our	Better Environmental	Streamlines
long-term options	Outcomes	compliance
In-principle approval	Focused on what	Outcomes focused
Responsiveness	matters	Strategic
Certainty Flexibility	Helps to build alignment with Regulators	Structured Consistent
Optionality		

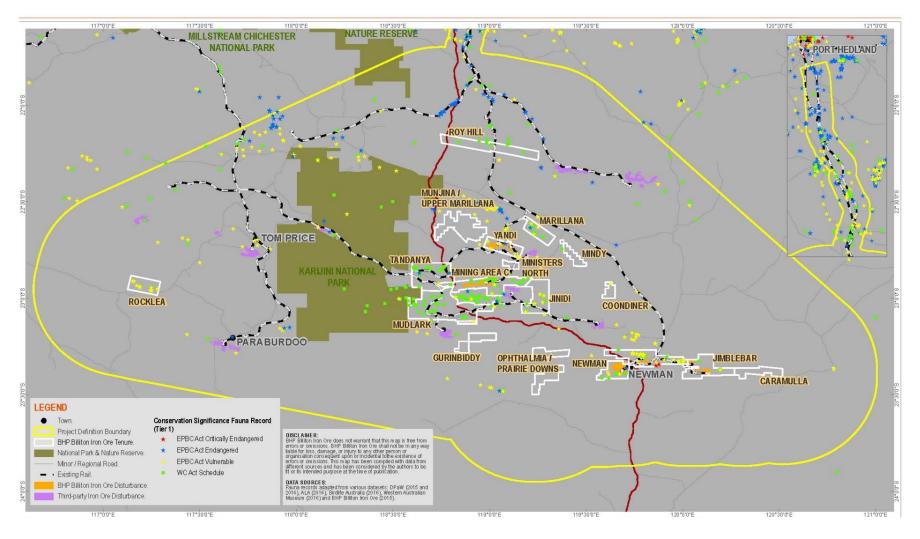


Key environmental features



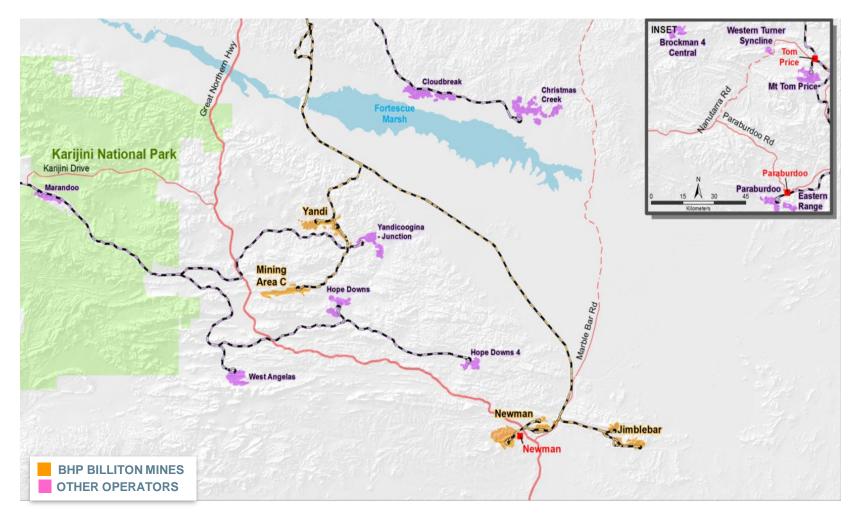


Conservation significant fauna



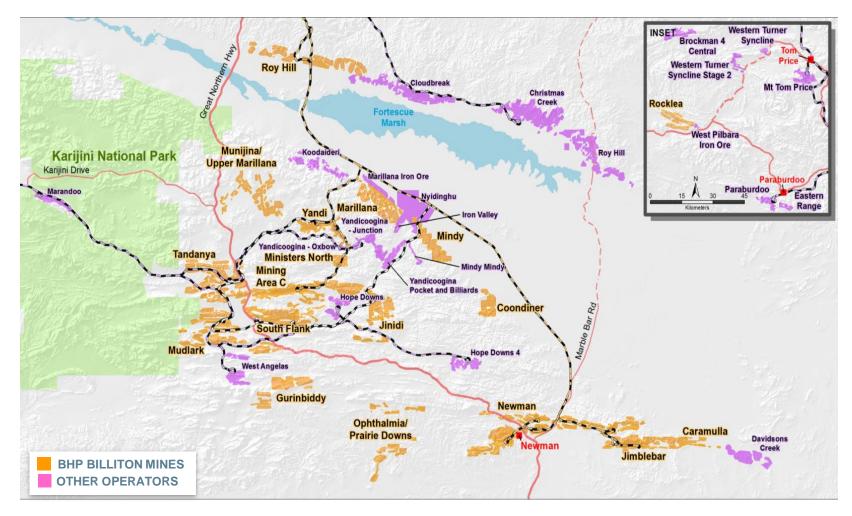


Current Pilbara operations



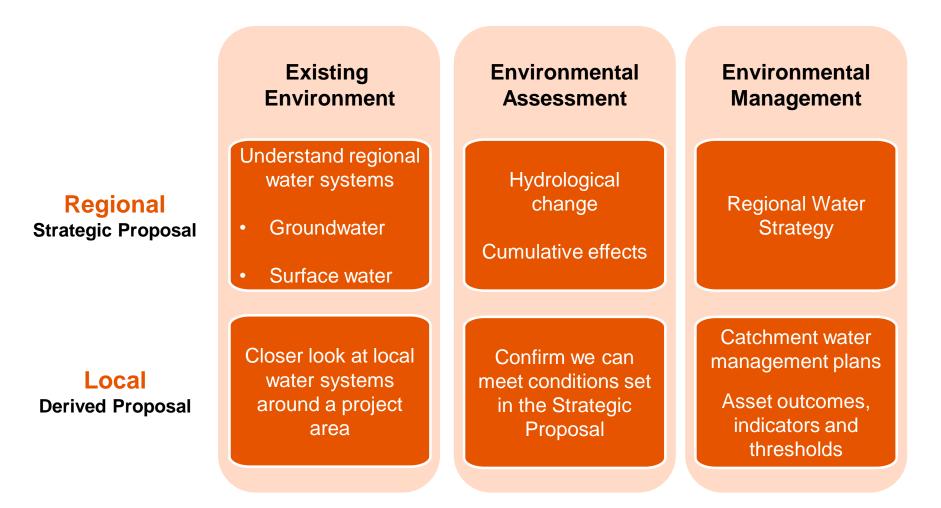


100 year plus development in the Pilbara



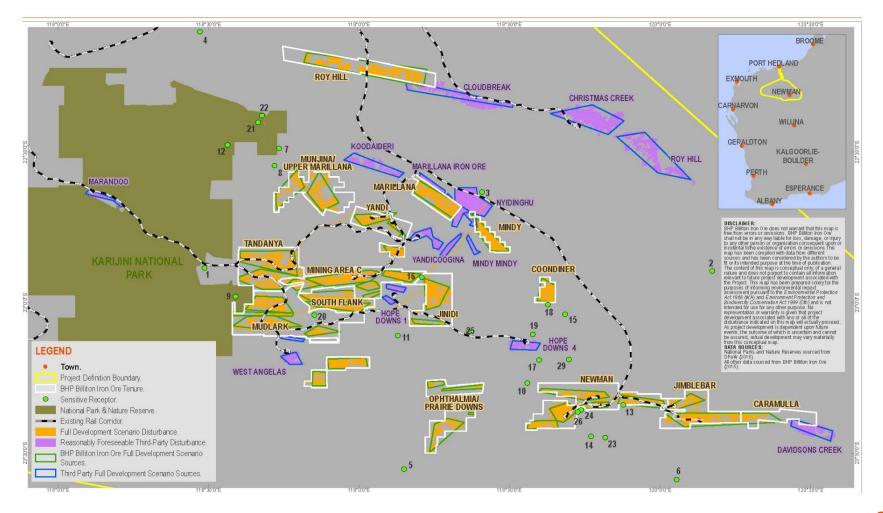


A two-step assessment – water example

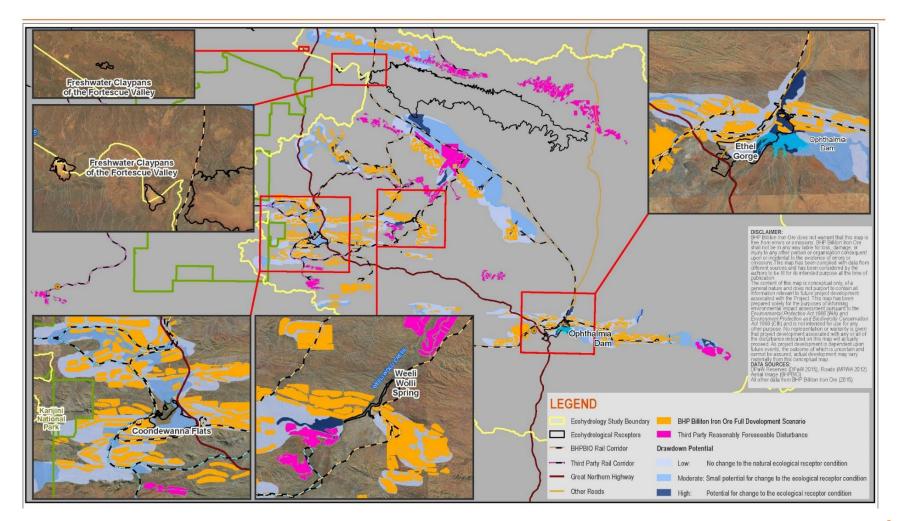




Sensitive receptors – air quality



Groundwater change potential



Species landscape scale cumulative evaluation

3 Predict habitat Identify threats to Quantify the extent suitability for Specified of influence Specified **Protected Matters Protected Matters** Define the area of **Establish Specified** potential change Protected Matters base Develop threats (potential associated with: layer by modeling impact) profile suitable habitat using - Non-mining activities recent observations Estimate the relative level - BHP Billiton mining of threat from particular - Third party mining Rank potential habitat activities suitability for current and future scenarios

Habitat suitability modelling - Greater Bilby

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Impacts can be managed to meet EPA Factor Objectives

Business as usual management:

- Heritage
- Amenity (visual and noise)

Targeted management in addition to business as usual management:

- Flora and vegetation
- Terrestrial fauna (including short range endemics and subterranean fauna)
- Hydrological processes and inland waters environmental quality
- Terrestrial environmental quality
- Rehabilitation and decommissioning
- Air quality





Delivery timeline



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