

## 環境レビュー結果

- (1) 照会番号  
19-039
- (2) プロジェクト名  
既存鉱山増産に伴う建設機械輸出
- (3) 実施場所  
オーストラリア ニューサウスウェールズ州
- (4) プロジェクト概要  
既存鉱山増産に伴う建設機械輸出
- (5) カテゴリ分類  
カテゴリ B
- (6) カテゴリ分類の根拠  
本件は環境ガイドラインに示される鉱山セクターに該当するが増産は大規模ではなく、環境ガイドラインに掲げる影響を及ぼしやすい特性を持つものの増産に伴う追加的影響は少なく、影響を受けやすい地域またはその近傍への立地を伴わず、本輸出に伴う環境社会への望ましくない影響は重大でないと判断されるため。
- (7) 環境許認可  
同国の法制度に基づき環境社会影響評価報告書が作成されており、環境当局より2013年に環境許認可を付帯条件付きで取得済みである。
- (8) 汚染対策  
大気質や水質、騒音等に対して適切な影響緩和のための対策が講じられていることが確認されている。
- (9) 自然環境面  
プロジェクトサイト及び周辺に保護区や重要生息地は存在しない。生態系に対しても代償措置など適切な対策が講じられていることが確認されている。

- (10) 社会配慮面  
非自発的住民移転や用地取得は伴わず、先住民族への影響も生じない。  
プロジェクトサイト周辺の社会環境に対する適切な配慮がなされ、また  
グリーンバンスメカニズムも整備されていることが確認されている。
  
- (11) 適用国際基準  
IFC パフォーマンススタンダード
  
- (12) その他（モニタリング等）  
環境管理計画やモニタリング計画が作成されており、モニタリング結果  
は定期的に同国環境当局に報告されている。

以上

## Questions

**Q1.** Please provide the address of the project site.

Address of the project site: Tarrawonga Mine, 469 Goonbri Rd, Boggabri, NSW, 2382

**Q2.** Please provide brief explanation of the project.

The Tarrawonga Mine (Tarrawonga) is located approximately 42 kilometres (km) north-northwest of Gunnedah in New South Wales (NSW). The Tarrawonga Mine is owned and operated by Tarrawonga Coal Pty Ltd (TCPL), a wholly owned subsidiary of Whitehaven Coal Limited (Whitehaven).

Tarrawonga is an open cut mine with mining conducted by conventional drill and blast and haul back mining methods, using trucks and shovels.

Run Of Mine coal (ROM coal) from Tarrawonga is road hauled from the mine site to a central coal handling preparation plant ("CHPP") where the coal is washed, loaded on a train sent to Newcastle for loading and sale.

Coal product mix is a semi-soft metallurgical coal and a high quality thermal coal both well suited for the export market. Majority of the coal exported from Tarrawonga Coal is sold into Japan.

<b>Tarrawonga Coal Production</b>	<b>FY13</b>	<b>FY14</b>	<b>FY15</b>	<b>FY16</b>	<b>FY17</b>	<b>FY18</b>
ROM coal production (Mt)	2.055	2.194	2.153	2.405	2.692	2.289
Saleable coal production (Mt)	1.751	1.914	1.983	1.976	2.241	2.162

Tarrawonga's Project Approval permits ROM coal production up to 3.0mtpa. The NEXI support being sought is to fund a new fleet of Hitachi mining equipment, which are 3 Excavators (EX5600) and 8 Dump Trucks (EH4000), increase ROM coal production from the current level of 2.289mt in FY2018 to towards 3.0mtpa. The equipment being purchased will increase productivity, allowing Tarrawonga to mine the coal contained within the approved mining area at a faster rate. There is no other equipment being currently be considered for the Tarrawonga expansion.

Following approvals were granted for Tarrawonga's Project to permit ROM coal production up to 3.0mtpa:

- Project Approval – Issued under Section 75J of the Environmental Planning and Assessment Act 1979. Approval was granted 22 January 2013 and subsequently updated as follows 2014, 2016, Feb 2017, May 2017 and Aug 2017.
- Mining Lease 1579 – Issued by the NSW Minister for Mineral Resources - April 2016
- Mining Lease 1685 – Issued by the NSW Minister for Mineral Resources – 18 July 2013 and updated 19th February 2018
- Mining Lease 1693 - Issued by the NSW Minister for Mineral Resources – 14 October 2013 and updated 19th February 2018
- Environment Protection License 12365
- EPBC 2011/5923 Approval – Commonwealth Government of Australia – Department of the Environment. – 11 March 2013 and updated in 2015, 2016 and 2018

### **About Whitehaven**

Whitehaven Coal is the leading Australian producer of high-efficiency, low emissions coal, and the dominant player in Australia's only emerging high-quality coal basin. We help to power highly-developed and emerging economies in Asia where there is strong and growing demand for our product, including Japan.



**Q6.** If environmental and social permit(s) other than ESIA is required, please provide the name of required permit(s). Have you obtained required permit(s)?

- Obtained  Required, but not obtained yet  
 Not required  Others (Please specify \_\_\_\_\_ )

Name(s) of required permit(s): Mining Lease (ML) 1579, 1685, 1693; Environment Protection License 12365, Water Access License 31084, EPBC 2011/5923 approval, PA 11\_0047 approval. \_\_\_\_\_

**Q7.** Will the insurance be used for the undertaking that cannot specify the project at this stage (e.g. export or lease of machinery that has no relation with specific project, or Two Step Loan that cannot specify the project at the time of loan agreement)?

No - The insurance being sought will be used to fund equipment at the Tarrawonga mine

If you answered "Yes", it is not necessary to reply to the following questions.

If you answered "No", please reply to the following questions.

**Q8.** Are there any environmentally sensitive area(s) shown below in and around project site(s)?

No

If you answered "Yes", please select applicable items by marking, and reply to the following questions.

If you answered "No", please reply to the questions 9 and after.

- (1) National parks, nationally-designated protected areas (coastal areas, wetlands, areas for ethnic minorities or indigenous peoples and cultural heritage, etc. designated by national governments)  
 (2) Forests with important ecological value (including primary forests and natural forests in tropical areas)  
 (3) Habitats with important ecological value (including coral reefs, mangrove wetland and tidal flats)  
 (4) Habitats of rare species requiring protection under domestic legislation, international treaties, etc.  
 (5) Areas in danger of large-scale salt accumulation or soil erosion  
 (6) Areas with a remarkable tendency towards desertification  
 (7) Areas with unique archaeological, historical or cultural value  
 (8) Areas inhabited by ethnic minorities, indigenous peoples or nomadic peoples with traditional ways of life (including areas which are used for cultural or spiritual purposes) and other areas with special social value

**Q9.** Does the project involve following characteristics?

Yes

If you answered "Yes", please describe the scale of applicable characteristics, and reply to the questions 10 and after.

If you answered "No", please reply to the questions 11 and after.

- (1) Involuntary resettlement and/or loss of means of livelihood (Number of affected people: \_\_\_\_\_ )  
 (2) Pumping of groundwater (Scale: up to 300ML/year)  
 (3) Land reclamation, development and/or clearing (Scale: 639.57 ha )  
 (4) Deforestation (Scale: \_\_\_\_\_ ha)

**Q10.** Under the environmental and social impact assessment system of the country where the project is to be implemented, do the applicable characteristics from (1) – (4) of the questions 9 and their scale serve as basis for executing an ESIA for the project?

- They do  They do not  
 Others (Please specify \_\_\_\_\_ )

**Q11. May the project involve significant social impacts?**

No

If you answered "Yes", please describe the outline of the impacts, and reply to the questions 12 and after.  
If you answered "No", please reply to the questions 12 and after.

- The likelihood of severe project-related human rights impacts ( )  
 Others ( )

**Q12. Will the value insured by NEXI in the export, loan or investment project be equal or less than 5% of the total project cost, or equal or less than SDR 10 million? (In the case of additional support for a past project, this shall be the accumulated total amount)**

No

If you answered "Yes", it is not necessary to reply to the following questions.  
If you answered "No", please reply to the questions 13 and after.

**Q13. Does the project belong to either of the sectors that impact on the environment and society is deemed immaterial or is not anticipated under normal conditions (e.g. maintenance of the existing facilities, non-expansory renovation project, and acquisition of rights and interests without additional capital investment)?**

No

If you answered "Yes", it is not necessary to reply to the following questions.  
If you answered "No", please reply to the questions 14 and after.

**Q14. Does the project belong to the following sectors?**

Yes

If you answered "Yes", please specify the sector by marking, and reply to the questions 15 and after.  
If you answered "No", it is not necessary to reply to the following questions.

- (1) Mining  
 (2) Oil and natural gas development  
 (3) Pipelines  
 (4) Iron and steel (projects that include large furnaces)  
 (5) Non-ferrous metals smelting and refining  
 (6) Petrochemicals (manufacture of raw materials; including complexes)  
 (7) Petroleum refining  
 (8) Oil, gas and chemical terminals  
 (9) Paper and pulp  
 (10) Cement plants (including a greenfield quarry)  
 (11) Manufacturing and transport of toxic or poisonous substances regulated by international treaties, etc.  
 (12) Thermal power  
 (13) Nuclear power  
 (14) Hydro power, dams and reservoirs  
 (15) Power transmission and distribution lines involving large-scale involuntary resettlement, large-scale logging or submarine electrical cables  
 (16) Roads, railways and bridges  
 (17) Airports  
 (18) Ports and harbors  
 (19) Sewage and wastewater treatment having sensitive characteristics or located in sensitive areas or their vicinity  
 (20) Waste management and disposal  
 (21) Agriculture involving large-scale land clearing or irrigation  
 (22) Forestry  
 (23) Tourism (Construction of hotel, etc.)

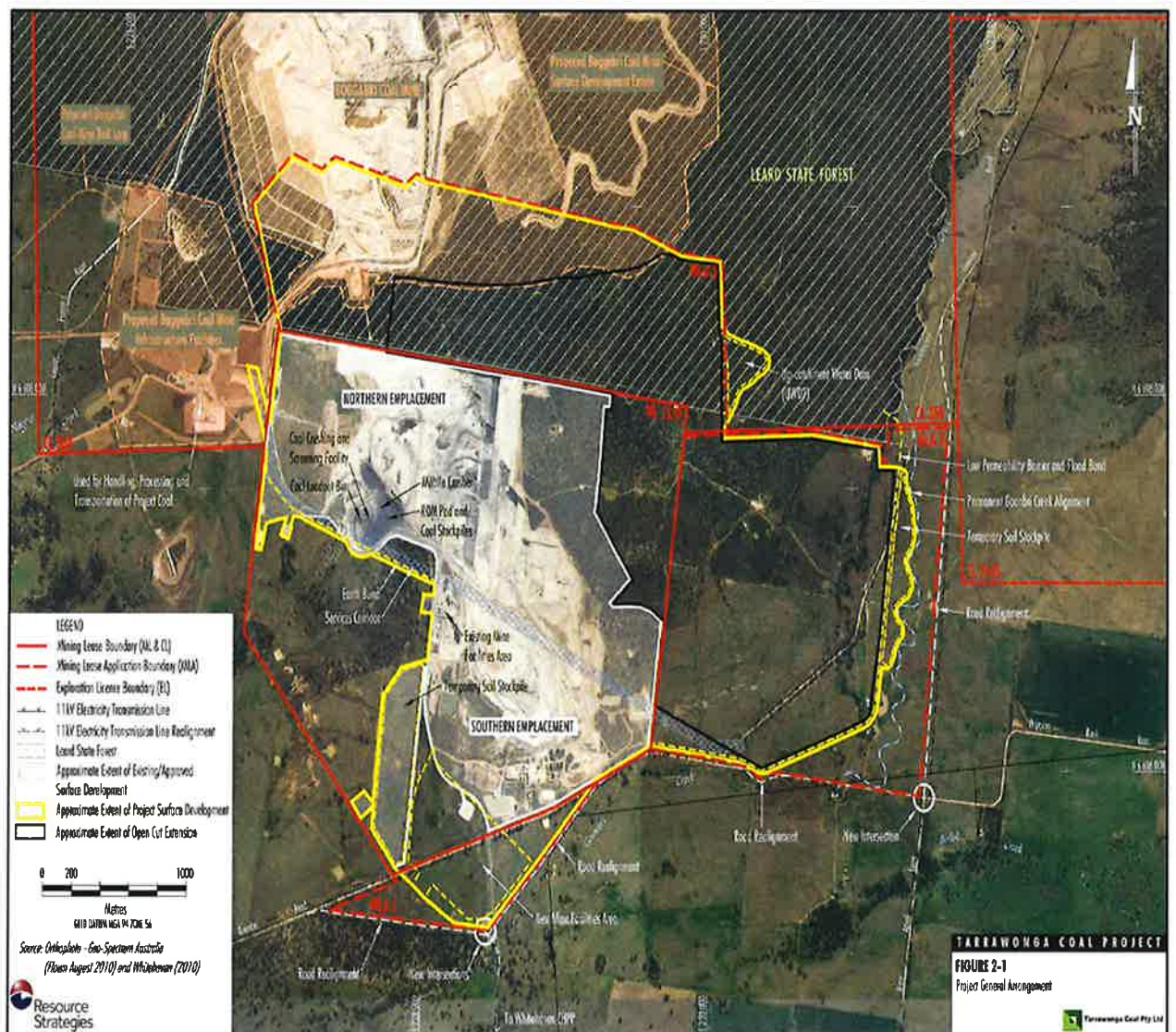
**Q15.** Please provide information on the scale of the project (project area, area of plants and buildings, production capacity, amounts of power generation, etc.) Further, please explain whether an execution of EISA is required on account of the large scale of the project in the country where the project is implemented.

Tarrawonga has been in operation since June 2006 with ~25.0 Mt of ROM coal being produced. Annual ROM coal production rates have been consistently been in the range of 2.0mtpa to 2.5mtpa.

Tarrawonga Coal Production	FY13	FY14	FY15	FY16	FY17	FY18
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Mine infrastructure includes the follow (please also refer to the map below)

- Coal crusher and screening facility
- Mobile crusher
- ROM stock pile
- Coal loading facilities
- Offices
- Maintenance facilities



Coal from the Tarrawonga mine is road hauled from the mine site to a central coal handling preparation plant (“CHPP”) where the coal is washed, loaded on a train sent to Newcastle for loading and sale. Coal produced from Tarrawonga can broadly be categorised as high quality thermal coal and semi-soft coking (“SSCC”). Both of these coal are well suited to the export coal market with Japan being the mines largest export destination. Average split between thermal and SSCC is 70% and 30% respectively.

Typical coal specs are detailed below;

	Tarrawonga 12% ash thermal	Tarrawonga SSCC
Calorific value (GAR/kg)	6,323	6,843
Total Moisture (% as received)	11.5	11.0
Ash (% as received)	11.0	5.1
Sulphur (% as received)	0.37	0.37
Volatile Matter (% as received)	31.2	33.3
Crucible Swelling Number (CSN) – adjusted	n/a	3.0
R <sub>0</sub> (max)	n/a	0.62

Based on a saleable coal production of 2.5mtpa and a thermal and SSCC split of 70% and 30% respectively, Tarrawonga mine could produce enough electricity in an ultrasupercritical power station to supply all of Japan's power for nearly 2.5 days<sup>1</sup> and enough SSCC to produce approximately 1Mt tonnes of steel the equivalent to approximately 1.8 million cars<sup>2</sup>.

1. Assumes 800MWe USC power station operating at 45% sent out efficiency (LHV) and ~80% capacity factor with typical Tarrawonga Thermal Coal.
2. Assumes ~770 tonnes of coal per tonne of steel, a standard car being 1 metric tonne and approximately 55% of the car being steel.