



## MINISTER FOR ENVIRONMENT

## STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED (PURSUANT TO THE PROVISIONS OF THE ENVIRONMENTAL PROTECTION ACT 1986)

## YANDICOOGINA (MARILLANA) IRON ORE PROJECT

## BHP - UTAH MINERALS INTERNATIONAL

This proposal may be implemented subject to the following conditions:

1. The proponent shall adhere to the proposal as assessed by the Environmental Protection Authority and shall fulfil the commitments made (copy of commitments attached).
2. The proponent shall undertake regular monitoring of creek bed vegetation and sediment movement in the Marillana Creek system to assess any changes that occur as a result of the mine water discharge and shall ameliorate adverse effects to the satisfaction of the Environmental Protection Authority. The monitoring programme shall be to the satisfaction of the Environmental Protection Authority and shall be prepared prior to commissioning the mine. Results of this monitoring shall be reported through regular reporting mechanisms required under the Agreement Act.
3. At least 12 months prior to the completion of this project the proponent shall prepare and implement a plan for on-going water quality management in the mined-out pit, to the satisfaction of the Environmental Protection Authority.
4. During all project phases, including construction and contract mining as well as on-going mining by the proponent, the proponent shall restrict caravans to a managed caravan park incorporating adequate sewage and other waste disposal facilities.

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5. The proponent shall refer any proposal he may develop to establish a new townsite in the Yandicoogina area to the Environmental Protection Authority for assessment.
6. The proponent shall refer any proposal to increase the mining rate beyond 5 million tonnes per year to the Environmental Protection Authority.

Barry Hoggé, MLA  
MINISTER FOR ENVIRONMENT

25 MAY 1980

## YANDICOOGINA (MARILLANA) IRON ORE PROJECT

### ENVIRONMENTAL MANAGEMENT COMMITMENTS

1. The Proponent will submit an environmental monitoring and management programme with the mining proposals to the State in accordance with the State Agreement Act.
2. Regular assessment of monitoring results and management effectiveness are to be reported as part of the monitoring and management programme. Reports will be submitted to the responsible Minister at intervals specified in the Act.
3. The Proponent will comply with the provisions of all relevant Government Acts and Regulations that may apply to the operations.
4. An Environmental Officer will be responsible for all environmental monitoring and management activities for the Project.
5. Environmental awareness programmes will be provided for all construction, contractor and operational workforce.
6. During the construction phase minimum alteration to the existing topography will be achieved. Once construction is complete, areas no longer required will be contoured, slopes stabilised, topsoil replaced and revegetated.
7. Borrow pits, where possible, will be located in areas not visible from the accommodation sites or access roads. The pits will be reshaped and revegetated. Drainage control will be employed to reduce surface water ponding.
8. Erosion will be managed by contouring, stabilising and vegetation.
9. Minimisation of disturbance to archeological sites will be achieved by reducing any operations on the sites. Where a site may need to be disturbed, the Proponent will comply with any conditions imposed by the Minister for Aboriginal Affairs.
10. The area of disturbance will be reduced by using overburden for bund walls, fill for borrow pits and by returning overburden and waste ore to the mined out areas of the pit.
11. Surface dumps of overburden including bund walls, refilled borrow pits and the main overburden dump area will be stabilised to minimise wind and water erosion. The final waste dump will be constructed as to conform with the existing topography.
12. Revegetation of the mine dumps will be achieved using the most successful vegetation techniques available. The revegetation programme will be monitored intensively during the mining phase, and routinely following decommissioning.
13. Mine dewatering will be affected by pumping the minimum amount of groundwater to achieve optimum mining conditions.
14. Mine dewatering discharge will be fed into Marillana Creek and used as irrigation water to support phreatophytic vegetation.

15. No contaminated process water from the operation will be allowed to discharge to the creek system or to the groundwater. A detailed water quality sampling and analysis programme will be adopted as part of the monitoring programme.
16. The removal of waste materials, ie. oils, sewage, etc. will be undertaken in accordance with Health Department and Local Authorities' requirements.
17. Monitoring of the dewatering effects on the riverine phreatophytes will be undertaken. Management will be effected by irrigation of affected areas with mine dewatering discharge.
18. Occupational and ambient dust levels will be managed by controlling dust emissions at their source. Dust monitoring programmes will be implemented, and dust emissions controlled by water spraying.
19. Seasonal vegetation surveys will be undertaken during mining.
20. During construction, caravans will be restricted to a managed caravan park.
21. As part of the general monitoring and management programme, the following mosquito control practices will be adopted:
  - . identify and control potential mosquito breeding sites;
  - . monitor mosquito species to assess disease potential; and
  - . carry out necessary fogging, spraying and baiting should it be required.
22. Management of the area following completion of mining will be undertaken:
  - . Pre-existing drainage networks will be reestablished where applicable.
  - . Revegetation activities will continue until stable communities are established.
  - . The mined out pit will be modified to minimise water quality changes caused by evapoconcentration.