

1998 JABILUKA PUBLIC ENVIRONMENT REPORT (PER)
ENVIRONMENTAL RECOMMENDATIONS AND REQUIREMENTS FROM JMA APPROVAL

| Recommendation No. | RECOMMENDATIONS OF THE MINISTER FOR ENVIRONMENT | Requirement No. | REQUIREMENTS OF THE MINISTER FOR RESOURCES |
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| 1 | Gold must not be extracted and processed unless additional environmental impact assessment is undertaken and approval is given by the Commonwealth. | 1 | There is to be no extraction of gold unless further environmental assessment is made in accordance with the prevailing environmental regulations/requirements. |
| 2 | ERA must ensure, to the satisfaction of the Supervising Scientist, that there will be no significant release of contaminants to the environment (through physical or chemical means) for at least 10,000 years. | 2 | ERA is to ensure, to the satisfaction of the Supervising Authority, that there will be no significant release of contaminants to the environment (through physical or chemical means) for at least 10,000 years. |
| 3 | ERA must prepare operational management plans, to the satisfaction of the Supervising Authority, dealing with the management of acid generation, runoff and seepage. | 3 | ERA is to prepare operational management plans, to the satisfaction of the Supervising Authority, dealing with the management of acid generation, runoff and seepage. |
| 4 | ERA shall ensure that all runoff from stockpiles passes through sediment traps. The design, location and construction of the sediment traps must be approved by the Supervising Authority prior to construction. | 4 | ERA is to ensure that all runoff from stockpiles passes through sediment traps. The design, location and construction of the sediment traps must be approved by the Supervising Authority prior to construction. |
| 5 | ERA must ensure, to the satisfaction of the Supervising Scientist, that runoff from waste rock stockpiles does not cause any increase in the mean concentration of suspended solids in Swift Creek that is greater than the standard deviation of naturally occurring concentrations in Swift Creek. | 5 | ERA is to submit to the Supervising Authority an analysis of options for the management of runoff in a manner that will ensure that there is no significant environmental impact on Swift Creek from suspended solids as measured at or near the exit of the lease. |
| 6 | ERA must, to the satisfaction of the Supervising Authority, conduct an assessment of the chemical composition of waste rock in stockpiles and the rate of its weathering and must amend the operational management to address the results of this assessment. | 6 | ERA is to conduct an assessment of the chemical composition of waste rock in stockpiles and the rate of its weathering, and should amend the operational management plans (if necessary) to address the results of this assessment. This should be done to the satisfaction of the Supervising Authority. |
| 7 | Before construction of the mill facilities, ERA must submit to the Supervising Authority a detailed design of the proposed sewerage system and an on site sewage monitoring program. | 7 | In implementing the provisions of the Public Health Regulations, ERA is to take into account the intent of recommendation 7 of the Minister for the Environment. |
| 8 | ERA must conduct an assessment of the effects of groundwater and changes to surface-water within the Swift Creek catchment and to Swift Creek itself, to the satisfaction of the Supervising Scientist and the Supervising Authority. ERA must comply with any requirement of the Supervising Scientist or the Supervising Authority designed to mitigate or avoid impacts identified in this assessment. | 8 | ERA is to conduct an assessment of the effects of groundwater and changes to surface-water within the Swift Creek catchment and to Swift Creek itself, to the satisfaction of the Supervising Authority. ERA is to comply with any requirement of the Supervising Authority designed to mitigate or avoid impacts identified in this assessment. ERA is to consult with the Supervising Authority and the Supervising Scientist to determine the scope of the above assessment. |

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| 9 | ERA must ensure that operational management plans are prepared incorporating specific clean-up procedures for each reagent transported and used on the site, to the satisfaction of the Supervising Authority. | 9 | ERA is to ensure that specific clean-up procedures are identified in operational management plans for each reagent transported and used on site to the satisfaction of the Supervising Authority. |
| 10 | ERA must, to the satisfaction of Environment Australia and the Supervising Authority, develop and implement measures to ensure the protection of the flora and fauna species listed in s.6.6.3 of the Assessment Report. | 10 | ERA is to develop and implement measures to the satisfaction of Environment Australia and the Supervising Authority to ensure the protection of the flora and fauna species including in particular those listed in s.6.6.3 of the Assessment Report. |
| 11 | ERA must devise and implement, to the satisfaction of the Supervising Scientist, a biological monitoring program that includes Swift Creek and other suitable analogues. | 11 | ERA is to devise and implement, to the satisfaction of the Supervising Authority, a biological monitoring program that includes Swift Creek and other suitable analogues. |
| 12 | <p>ERA must, to the satisfaction of the Supervising Scientist and the Supervising Authority, develop and implement a rehabilitation plan.</p> <ul style="list-style-type: none"> ERA must establish a rehabilitation trust fund and must contribute annually an amount determined jointly by the Commonwealth and the Northern Territory. ERA must lodge with the Commonwealth a bond of \$1 million, to be held in perpetuity to cover costs associated with long term environmental monitoring and maintenance of the rehabilitated site. | 12 | <p>ERA is to develop and implement a rehabilitation plan in accordance with the Rehabilitation Deed issued by the Northern Territory on 12 August 1982 and assigned to ERA on 21 August 1991, to the satisfaction of the Supervising Authority.</p> <ul style="list-style-type: none"> The Northern Territory and the Commonwealth will also agree on rehabilitation requirements, including the annual rehabilitation plan and the level of security required as assessed on an annual basis Arrangements for security to cover costs associated with long term environmental monitoring and maintenance of the rehabilitated site will be no less than arrangements established for the Ranger uranium mine now or in the future. |
| 13 | ERA must, in consultation with the NLC and the Supervising Scientist, report to affected Aboriginal people on the impacts of the project. | 13 | Arrangements are to be established with the NLC to provide for ERA, the Supervising Authority, and the Supervising Scientist, to report to affected Aboriginal people on the impacts of the proposal in the region. |
| 14 | ERA must comply with the recommendations relating to radiation protection as set out in Recommendation 35 of the advice of 22 August 1997 from the Minister for the Environment on the Jabiluka Ranger Mill Alternative. | 14 | In complying with Regulation 19 of the Mine Management Regulations and Jabiluka ER 28, ERA is to implement a radiation protection monitoring program as per requirement 35 arising out of the 1997 EIS assessment. |
| 15 | ERA must ensure that its operations do not result in any adverse impacts on world heritage or national estate values. | 15 | ERA is to ensure that the Jabiluka proposal does not have any significant adverse impact on the world heritage values of Kakadu National Park. ERA is to take all reasonably possible steps to ensure there is no impact on national estate values. |
| | | 16 | In developing the proposal under which 100% of tailings are placed back underground in the mine void, ERA is to comply with Jabiluka ERs 12, 13 and 14. |
| | | 17 | <p>In developing any proposal for disposal of tailings by methods other than disposal in the underground mine voids;</p> <ol style="list-style-type: none"> ERA is to conduct an additional assessment to address relevant issues identified in Environment Australia's PER Assessment Report and the "Review of Jabiluka Mine Alternative Tailings Management Proposal" by Unisearch Limited, including the hydrogeological issues and the issues associated with the use of the cemented paste technology. The terms of reference for the additional assessment are to be developed in consultation with the Commonwealth and Supervising Authority. ERA should submit the revised proposal and the assessment results to the Minister for the Environment for any further recommendations to the Minister for Resources and Energy. |