



GROUND DISTURBANCE MANAGEMENT PLAN

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1. PURPOSE

The objective of this Ground Disturbance Management Plan (GDMP) is to ensure procedures and controls are in place to minimise the impact on vegetation during disturbance activities during mining and construction activities for the Twin Bonanza Project.

The GDMP has been prepared to comply with commitments given in the Mining Management Plan (MMP) and Environmental Impact Statement (EIS).

2. PRINCIPLES

To achieve the desired outcome of minimising impacts the key principles in implementing the plan are:


- all ground disturbance activities are approved by relevant government agencies
- disturbance to native vegetation is minimised within approved areas, with vegetation retained where practicable
- areas are cleared progressively to minimise wind and water erosion on disturbed surfaces
- access is limited to undisturbed areas,
- clearing is avoided during periods of too wet or dry soil conditions
- rehabilitation/ stabilisation of infrastructure areas is undertaken progressively.

3. IMPLEMENTATION AND RESPONSIBILITIES

All ground disturbances on site will not be commenced until the Land Clearing Procedure Checklist has been completed. A copy of the Land Clearing Procedure Checklist is presented in Figure 1. Once the checklist is complete a copy will be filed for future reference. The onsite delegate responsible for supervising the clearing is responsible for ensuring that:

- a minimum area is disturbed for establishment of the required infrastructure or landform
- all required approvals are in place and clearing complies with the approved areas
- the area to be disturbed is clearly marked in the field and machine operators are informed that only the demarcated area is cleared
- disturbance is progressive so that areas to be cleared for future use are left vegetated until such time as they are required.

4. FIGURE 1: LAND CLEARING PROCEDURE CHECKLIST

	Land Clearing Procedure	ABM Twin Bonanza 1 Gold Mine
Contractor		
Type of Equipment		
Area of Land Disturbed		
Clearing Checklist		
Confirmed extent of clearing area has all required approvals (If approvals not granted clearing should not be undertaken)	Yes	No
Checked for Aboriginal Heritage sites		
Confirm clearing area and stockpile areas are delineation based on clearly marked out scale maps and/or set of co-ordinates consistent with approvals		
Land to be cleared is demarcated by cones/flagging/pegs (note if large area no more than 50m between markers. If markers not visible from one to the next then markers need to be closer).		
Clearing supervised		
Check for the presence of Bilby or Mulgara (if present avoid habitat if possible. If unable ensure individuals are appropriately managed)		
Check for the presence of Desert Walnut Trees (Avoid if practicable. If unable to avoid provide details of the number of plants removed in the box below)		
Check for the presence of Bloodwood Trees (Avoid if practicable. If unable to avoid provide details of the number of plants removed in the box below)		
Check for the presence of Mature Trees >2m (Avoid if practicable. If unable to avoid provide details of the number of plants removed in the box below)		
Clearing is progressive to avoid the potential for soil erosion and dust generation		
Stockpiling of cleared vegetation within defined areas		
Stockpiling of salvaged topsoil (topsoil removal to a depth of 10cm) within defined areas		
Topsoil stockpiles do not exceed 2 metres in height		
Once clearing is completed a survey/GPS pickup is complete and the shape and coordinates provided in the box below		
Desert Walnut/Bloodwood/Mature trees removed		
Number	Species removed	
Post Clearing Survey/GPS Pickup		
Land Clearing Supervisor:		
Name	Position	
Signature	Date	
<p><u>Please place signed copy in the Land Clearing Folder located in the Bulk Sample Office.</u></p>		

5. CONTROL AND REVISION HISTORY

5.1 Document information

PROPERTY	VALUE
Approved by	Chief Operating Officer
Document Owner	Environmental Coordinator
Effective Date	01/07/2013
Keywords	

5.2 Revisions

Version	Date reviewed	Review	Nature of the amendment
1	01/07/2013	J. Robins	Initial Issue
2			
3			
4			

5.3 Read by

	NAME	DATE	SIGNED
1	J. Robins	08/08/2013	
2			
3			
4			