



Environmental Management Guidelines for Industry

Format and Guideline for the Preparation of a Mining Operation Plan SMALL MINE VERSION

*This form may be used as an alternative to the format described in **Guidelines to the Mining, Rehabilitation and Environmental Management Process**. The form is suitable for mines:*

- *with less than 4 hectares of total disturbance at any time during the MOP period. (may be extended at the discretion of the Department).*
- *which do not use dangerous or hazardous chemicals, or store greater than 1,000 litres of fuel on the mine site*
- *which do not have or require an EPA pollution control licence, or have a dam prescribed under the Dam Safety Act.*
- *where the primary environmentally significant issues are erosion and sediment control, and rehabilitation,*
- *are free of acid mine drainage and possible contamination problems*
- *without Aboriginal or historic heritage issues*

At the discretion of the Department the form may be used for some sites which do not meet these criteria.

MINING OPERATION PLAN REQUIREMENTS

Each mine operator in NSW is required to develop a Mining Operations Plan (MOP) that applies current best mining practice to achieve agreed environmental outcomes. Site activities must not be undertaken other than in accordance with a MOP that has been accepted by the Department. "Guidelines to the Mining, Rehabilitation and Environmental; Management Process" gives further detail of the context and regulatory framework which guides a MOP.

A MOP may be for seven years or, if convenient to both the Government and the Leaseholder, an agreed lesser period.

Progress against the MOP, and environmental performance in general, is reported each year through an Annual Environmental Management Report.

Changes of timing or scheduling, and minor deviations from the MOP that occur during the course of mining, can be accommodated by annual review without a need to redraft and submit the MOP document.

COMPLETION GUIDELINES

The form may be filled in by hand or typed. A MSword version is available on request.

As this guide applies regardless of the stage in the mine life cycle and the nature of operations, there may be some sections which are not relevant to a specific mine site and may be noted as not applicable.

Completed forms should be sent to your previous Departmental contact or:

Administration Officer,
Environmental Sustainability Branch
NSW Dept of Primary Industries - Mineral Resources
PO Box 344
Hunter Region Mail Centre NSW 2310

PLAN GUIDELINES

Plans may be derived from a convenient base map/plan with activity areas and features drawn by hand provided there is sufficient accuracy and detail to adequately describe activities and their impact. If contours are not shown, slopes and drainage lines must be clearly marked. The scale should show sufficient detail to review operations and rehabilitation. For most small mines A3 or A4 or sized plans will be appropriate. Also provide photographs and diagrams where appropriate. All plans must show

- the name of the mine;
- a graphical scale;
- boundaries of leases;
- cadastral information (land ownership boundaries);
- a title block showing the date of preparation of the plan, title and number;
- the signature of the person responsible for the plan.

PLANS REQUIRED

Plan 1: Pre MOP

Show the state of the site at the COMMENCEMENT of the MOP period including:

- site access and relationship to the nearest main road and town;
- natural features including swamps, rivers, creeks, streams or watercourses;
- existing non mining developments including roads, fences, transmission lines;
- vegetation and land use boundaries; eg cropping, pasture, forest, undisturbed flora/fauna habitat;
- derelict mines/mined land from activities which occurred before the grant of the present mine lease;
- neighbouring residences, within and adjacent to the mine holding/lease(s) area;
- extent of all mining, mineral processing, waste emplacement, ore/product stockpile, soil stockpiles, water management structures, other infrastructure features, rehabilitation, water monitoring sites.

Plan 2: End of MOP

Show the proposed state of the site at the END of the MOP period including:

- the extent of all mining, mineral processing, waste emplacement, ore/product stockpile, soil stockpiles, other infrastructure features;
- constructed drainage lines, water management and erosion control structures, water monitoring sites;
- the slope and shape of rehabilitated land;
- vegetation on rehabilitated land, and boundaries of vegetation types.

Plan 3: Final Rehabilitation

Show the anticipated state of the site after rehabilitation has been completed and the lease prepared for title relinquishment including:

- natural features including swamps, rivers, creeks, streams or watercourses;
- pre mining non mining developments including roads, fences, transmission lines;
- derelict mines/mined land from activities which occurred before the grant of the present mine lease;
- neighbouring residences, within and adjacent to the mine holding/lease area;
- boundaries and slopes of disturbed and rehabilitated land;
- vegetation type and land use boundaries of disturbed and undisturbed land;
- post mining land use capability of undisturbed and rehabilitated land;
- constructed drainage lines, water management and erosion control structures;
- remaining voids/pits and remaining disturbed land;
- all mine related infrastructure to remain on site after mine closure;
- fences, bunds and other public, fauna/ and stock safety features

Where mine closure will be completed during this MOP period, plans 2 and 3 may be combined

MINING OPERATIONS PLAN FOR SMALL MINES

Title Details

Name of mine

Mining Titles/Leases **Expiry Date**

Name of leaseholder

Name of mine operator (if different)

Postal Address

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Telephone/fax/email

Land Ownership and Land Use Boundaries

Land Owner/Occupier (if the Crown, state agency)	Tenure, (freehold/leasehold)	Premining landuse
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Consents and Licences

Local Council Area

Development Consent: granted [] required but not granted [] not required []

Do licences granted by other agencies apply to the mine activities? yes[.....] no[.....]

EPA [.....] NPWS [.....] NPWS [.....] Dam Safety [.....] Other [.....]

MOP Period

MOP Commencement Date MOP Completion date (nominal)

Comments

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Signatures

Leaseholder	Environmental Officer
Signature	Signature
Name	Name
Date	Date

TABLE 2: Summary Of Proposed Rehabilitation

	Area Affected (hectares)		
	Total Area, start of MOP	Total Area, end of MOP	At mine closure (<i>anticipated</i>)
A: MINE LEASE AREA			
A1 Mine lease(s) Area			
B: DISTURBED AREAS			
B1 Infrastructure area (other disturbed areas to be rehabilitated at closure including facilities, roads)			
B2: Active Mining Area (excluding items B3 - B5 below)			
B3 Waste emplacements, (active/unshaped/in or out-of-pit)			
B4 Tailings emplacements, (active/unshaped/uncapped)			
B5 Shaped waste emplacement (awaits final vegetation)			
ALL DISTURBED AREAS			
C REHABILITATION			
C1 Total Rehabilitated area (except for maintenance)			
D: REHABILITATION ON SLOPES			
D1 10 to 18 degrees			
D2 Greater than 18 degrees			
E: SURFACE OF REHABILITATED LAND			
E1 Pasture and grasses			
E2 Native forest/ecosystems			
E3 Plantations and crops			
E4 Other (include nonvegetative outcomes)			

