

# Mine Closing Plan

Mining Mineral Resources S.A.S

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## 1. Introduction

Mining is a temporary land use, and its closure requires careful planning to ensure minimal environmental impact and long-term sustainability for surrounding communities. This Mine Closing Plan establishes MMR's commitment to a responsible and structured mine closure process. It aligns with global industry trends, emphasizing sustainability, regulatory compliance, and socio-economic responsibility. The plan details strategies, actions, and governance mechanisms to close the mine safely, rehabilitate the environment, and support socio-economic transition, ensuring that the legacy of MMR's operations is one of positive transformation.

## 2. Objectives

The primary objective of this plan is to ensure that mine closure is conducted in a structured, responsible, and sustainable manner. The closure process will:

- Guarantee the safety and stability of the land post-mining.
- Restore ecosystems and minimize long-term environmental impacts with measurable success indicators, such as vegetation cover and water quality restoration.
- Establish a sustainable post-mining land use strategy through local stakeholder collaboration, aiming for economic viability within five years post-closure.
- Ensure social responsibility by mitigating economic disruption and supporting community transitions through skill development and employment programs.
- Maintain compliance with all national and international regulatory frameworks, subject to periodic third-party audits and reviews.

## 3. Legal and Regulatory Framework

MMR adheres to national and international regulations governing mine closure, ensuring full compliance with:

- The Mines and Minerals (Development and Regulation) Act.
- Mineral Conservation and Development Rules (MCDR).
- Environment Protection Act.
- Water and Air (Prevention and Control of Pollution) Acts.
- Forest Conservation Act (if applicable).
- International guidelines, including those set by the International Council on Mining and Metals (ICMM) and the International Finance Corporation (IFC).

To ensure ongoing compliance, MMR integrates legal reviews into its closure process, regularly engaging legal and environmental experts to assess evolving regulatory landscapes.

## 4. Mine Closure Process

### 4.1 Understanding Existing Mine Conditions

Before initiating closure, MMR conducts a comprehensive evaluation of existing mine conditions, including:

- **Mine Type and Operations:** Identifying whether the mine is open-cast or underground and assessing its operational history.
- **Environmental Conditions:** Conducting baseline studies on air and water quality, soil stability, biodiversity, and waste management.
- **Community Impact Assessment:** Evaluating the socio-economic reliance of nearby communities on mining activities to plan alternative livelihood opportunities.

Lessons from past MMR closures are applied to refine this assessment process and ensure a seamless transition.

### 4.2 Land Rehabilitation and Environmental Restoration

A key focus of mine closure is restoring land and water systems to a state that supports biodiversity and local ecosystems. This process includes:

- **Topographical Reshaping:** Contouring and regrading the land to restore natural landscapes, with completion milestones for each section.
- **Soil Restoration and Vegetation:** Replenishing topsoil and planting native vegetation with specific targets for plant survival rates.
- **Waste and Tailings Management:** Ensuring the safe disposal and stabilization of tailings while repurposing materials where feasible, including secondary mineral extraction.
- **Water Management:** Implementing water treatment solutions and ensuring groundwater recharge through sustainable hydrological management, with ongoing monitoring for five years post-closure.

### 4.3 Infrastructure Decommissioning

MMR is committed to responsibly dismantling and repurposing infrastructure while minimizing waste generation. This includes:

- **Demolition of Processing Plants and Industrial Facilities:** Ensuring materials are recycled or disposed of safely, with waste reduction targets.
- **Repurposing Roads and Utilities:** Where feasible, infrastructure will be retained for community use or integrated into local development projects.
- **Hazardous Material Removal:** Ensuring that all hazardous substances are safely extracted and disposed of in accordance with environmental regulations, with detailed disposal documentation.

### 4.4 Socio-Economic Transition and Community Engagement

Mining communities are often economically dependent on mining operations, making it essential to provide alternative livelihoods and continued support post-closure. MMR's approach includes:

- **Sustainable Livelihood Development:** Supporting economic diversification through agriculture, entrepreneurship, and renewable energy initiatives, with quantifiable success metrics.

- **Workforce Transition and Skill Development:** Providing training and job placement programs to help former mine workers transition to new careers, with a five-year employment monitoring framework.
- **Education and Healthcare Initiatives:** Strengthening community access to education and healthcare services post-closure with continued funding commitments.
- **Stakeholder Consultation and Grievance Mechanism:** Establishing clear channels for community engagement to address concerns and maintain transparency, with quarterly review meetings.

## 5. Post-Closure Monitoring and Maintenance

Mine closure is not a one-time event; it requires long-term monitoring and maintenance to ensure environmental recovery and socio-economic stability. MMR commits to:

- **Ongoing Environmental Monitoring:** Conducting periodic assessments of air, water, and soil quality for at least ten years post-closure to ensure continued compliance.
- **Biodiversity Conservation Efforts:** Partnering with environmental organizations to restore native ecosystems and protect wildlife, with biodiversity progress reports published annually.
- **Community Integration Support:** Evaluating the effectiveness of socio-economic programs and adjusting strategies as needed based on impact assessments.
- **Closure Oversight and Independent Audits:** A dedicated team will oversee post-closure activities, with external audits ensuring adherence to international standards.

## 6. Governance and Accountability

MMR upholds high standards of accountability in its mine closure process. To ensure successful execution:

- **A Mine Closure Oversight Team** will be appointed to manage closure implementation and long-term monitoring, with defined roles and responsibilities.
- **Clear Closure Milestones and Reporting Mechanisms** will be established to track progress, with biannual reports made available to regulators and stakeholders.
- **External Reviews and Independent Audits** will be conducted every three years to ensure compliance and transparency.
- **Stakeholder Collaboration** will be maintained through consistent engagement with governments, communities, and industry regulators, with annual forums to address concerns and align expectations.

## 7. Conclusion

The MMR Mine Closing Plan represents a responsible and sustainable approach to mine closure. By prioritizing environmental restoration, socio-economic transition, and regulatory compliance, MMR ensures that the legacy of mining operations is one of positive transformation rather than disruption. Through transparent governance and community collaboration, MMR commits to delivering a closure process that benefits both people and the planet.

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