

Closure and Rehabilitation Consulting Services



EARTH SYSTEMS
Environment - Water - Sustainability

CAPABILITIES

Earth Systems has expertise in the provision of closure and rehabilitation planning for resource development and other projects.

SERVICES PROVIDED

Earth Systems provides the following services to assist with closure and rehabilitation planning.

- Identifying rehabilitation issues, options and constraints, (e.g. by designing revegetation trials; conducting stakeholder consultation; or assessing issues relating to land capability, groundwaters, surface waters, biodiversity, culture, archaeology or heritage etc.).



- Evaluating closure options using multi-criteria decision analysis.
- Developing integrated rehabilitation and closure strategies that allow life-of-project closure planning that is responsive to project planning decisions, changing regulatory frameworks, and evolving corporate and stakeholder expectations.
- Designing and managing targeted research programs to define closure issues and refine closure options.
- Assessing risks and liability associated with rehabilitation and closure.
- Preparing rehabilitation plans, conceptual closure plans, interim closure plans and final closure plans to meet site, corporate, government, community or financier requirements.
- Designing and/or conducting closure and post-closure monitoring programs.

TROUBLE SHOOTING

Earth Systems has specialist expertise and technical capabilities to provide solutions for typical closure problems such as:

- The decommissioning of sites containing acid generating waste materials.
- The decommissioning of turbid, acidic or contaminated water bodies.
- The management of post-closure water quality issues.

EXPERIENCE

Earth Systems' personnel have experience in closure and rehabilitation planning including:

- Preparation of a Strategic Framework for Rehabilitation and Closure Planning, including multi-criteria decision analysis of closure options, for a large coal mine in Victoria, Australia.



Decommissioning of final voids can be a major issue for mining projects such as this coal mine in Victoria, Australia.

- Preparation of a Rehabilitation and Mine Closure Plan for the Sepon Project (both gold and copper stages) (Oxiana Resources) in Lao, PDR.
- Preparation of a Conceptual Closure Plan for the Peak Gold Mine, NSW, Australia (Rio Tinto). The plan covered both active and historic mining areas.
- Design of a rehabilitation and closure strategy for the Benambra base metal mine in Victoria, Australia.
- Presented at Australian Centre for Mining Environmental Research (ACMER) closure workshops.

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