

Water Resource Management Consulting Services



EARTH SYSTEMS
Environment - Water - Sustainability

CAPABILITIES

Protecting water resources and developing and implementing remediation strategies for polluted water bodies forms a core activity of Earth Systems.

SERVICES PROVIDED

Key services provided by Earth Systems in this sector include:

- Water resource evaluation, engineering, site water balances, environmental monitoring plans, water quality assessments and water quality modelling.
- Water pollution reduction and water reuse assessments.
- Treatment strategies and advice for potable water and wastewater streams.
- Routine or emergency response water and wastewater treatment.
- Pit lake water investigations, limnology and treatment.
- River and catchment geomorphology and landuse studies.
- Catchment management.
- Hydrological, hydrogeological and hydraulic investigations.



- Erosion control.
- Dredging environmental assessment.
- Environmental compliance monitoring and audits.

- Ecological assessment of risk and impacts.
- Wetland ecology and technology.

EXPERIENCE

Recent projects completed by Earth Systems include:

- Development of acid drainage management strategies and provision of advice on appropriate water treatment facilities at open cut and port facilities at a number of coal operations in South Kalimantan, Indonesia.



Earth Systems has provided water resource management and water treatment expertise to various water authorities and industry sectors including coal mining and loading facilities.

- Evaluation of the thermodynamic and logistic feasibility of utilising landfill gas to assist in the management of leachate by facilitating evaporative loss at a putrescible landfill in Sunbury, Victoria.
- Advice and assistance in the development of strategies to manage acid and copper affected drainage from a large Cu-Au mine in Indonesia.
- Development and implementation of a low-cost methodology for the treatment of small drinking water storage ponds to lower turbidity and improve colour for the Goulburn Valley and Grampians Water Authorities.
- Cyanide management strategies and cyanide destruction advice and services, for a series of gold mines.

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