

# Hydrology & Hydrogeology

COOE provides cost effective, quality solutions to environmental challenges. Our hydrology and hydrogeology team supply strategic advice to the mining industry for water resource planning, development and management. COOE delivers results across a broad range of projects requiring high-level project and program management experience and technical support towards approval processes, stakeholder and regulator liaison.

## Our Services

- Surface water hydrology
    - \* Surface water monitoring and management, sampling, modelling
    - \* Baseline studies and mining lease proposals
    - \* Independent technical review
  - Groundwater hydrogeology
    - \* Borefield design and management
    - \* Groundwater sampling and monitoring, modelling
    - \* Hydrogeological reporting and management plans
    - \* Dewatering design and management
    - \* Managed Aquifer Recharge
    - \* Independent technical review
  - Geochemical assessments
    - \* Water chemistry analysis
    - \* Soil chemistry analysis
    - \* Soil/Water interaction
    - \* Isotope analysis
  - Environmental chemistry
  - Acid sulphate soil and Acid rock drainage assessments
- Spatial services
    - \* GIS
    - \* Data Management
  - Ecological surveys
  - High level peer review
  - Water balance modelling
  - Groundwater numerical modelling
  - Monitoring well, production bore and well field design
  - Drilling and test pumping/injection supervision



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