



Geology and Hydrology Expertise

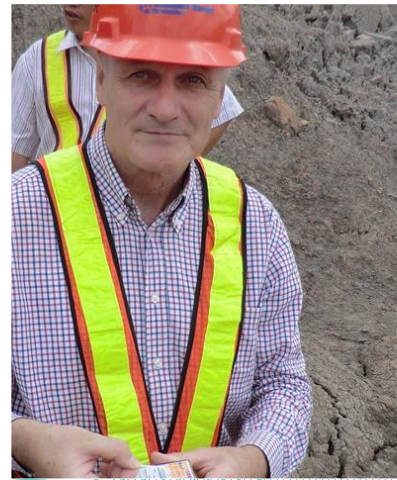
Any mineral resource identification needs the fundamental knowledge of geological, hydrological and environmental aspects. RWE provides expert knowledge in exploration and evaluation of mineral deposits, exploration mgmt. as well as managing and protecting groundwater resources.

Geology

Our geologists and mining engineers provide expert knowledge in the exploration and evaluation of mineral and solid-fuel deposits. Our services range from market studies and mineral potential surveys, through exploration management and mineral resource modelling, to mine planning, mining cost assessments and feasibility studies. We provide strategies that maximise the value of your asset. We identify the value of your mine deposit, make it attractive to investors and for obtaining bank loans for mine development. Detailed geological investigations are the very basis for any mining success in the future. Our experts for raw material management will provide you with the necessary information to enable you to make a commercial decision on exploration.

Hydrology

Opencast mining potentially endangers aquifers through lowering of the water table and potentially generating acid mine drainage. RWE can assist you in managing groundwater resources. Based on decades of experience, RWE has developed special measures to prevent contamination of groundwater with acid. Our services range from mine water management to hydrological dewatering through to water level measurements and field investigations to minimise the risks of groundwater effecting your mine operation.



Your Benefits



- Know the worth of your mineral deposit
- Maximise the value of your asset
- Ensure safe and economic mine development
- Minimise risks of groundwater effecting mine operation
- Learn interpreted economic models
- Comply with environmental standards and regulations
- Ensure sustainable mine and groundwater programmes



Our Scope

Geology, Exploration and Mineral Potential

- Market studies
- Feasibility studies
- Economic analysis
- Resource estimation (mineral potential surveys)
- Exploration management
- Mineral resource modelling
- Geotechnical field investigations
- Geotechnical laboratory tests
- Slope stability calculation
- Design, installation and evaluation of geotechnical monitoring programmes
- Set up of geotechnical reports
- Courses in slope stability calculation

Hydrology and Groundwater Modelling

- Groundwater investigation studies
- Groundwater modelling studies
- Groundwater infiltration
- Groundwater management plans
- Mine dewatering plans
- Laboratory analyses
- Supervision and evaluation of drilling and pump testing
- Acid mine drainage mitigation studies
- Hydrochemical investigations
- Dewatering and groundwater abstraction
- Water level measurement

