

Professional Services in Geology, Ground Engineering & Environment

DAVID ROCHE GeoConsulting provides a range of professional consultancy services based on a depth of specialist expertise, knowledge and experience. *Our services include:*

Desk Studies, Site Appraisals and Risk Assessments

Phase 1 Desk Study is the start of many projects, with searches for geoenvironmental information from Landmark Envirocheck database, old maps and memoirs, and our own archives. **Preliminary Site Appraisals** include desk study with an initial phase of fieldwork, to provide a quick and low-cost insight, eg for pre-purchase or site selection. **Risk Assessments** are reported for a range of requirements, eg safety, contamination, etc.

We offer a range of services carefully tailored to client needs.

Ground Investigations and Reports

Ground investigations and reports are the core of many projects, to determine **foundation and contamination** conditions, often as a Phase 2. **As independent consultants we design and arrange cost effective ground investigations optimised to the specific needs of each site.**

Methods include trial pits, dynamic probe window sampling, boreholes by rotary core, cable percussion, and open hole probing, etc, with both in-situ and laboratory testing of samples for engineering and chemical properties. **Reports are easy to read and present information clearly in summary and detail, with conclusions and recommendations.**

Ground Engineering Design and Supervision

For ground engineering works projects we provide **geotechnical design** parameters and produce design details. **Remediation works** for unstable slopes and contaminated sites are particular specialisms. In construction we **inspect and supervise** the works, and provide Engineer services. We also produce specifications, cost estimates, tender/contract documents, and safety management services.

Monitoring Inspection and Management

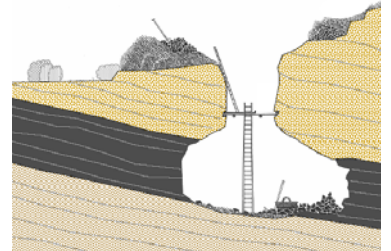
Slope stability and environmental projects require **periodic inspections** to observe changes, or to monitor and sample, as part of long term **management and aftercare**. For example landfill gas monitoring and risk assessment, ground movements instrumentation monitoring, groundwater and surface water monitoring sampling and testing, coastal management, and observational safety audits of cliffs and landfill sites.

Expert Witness and Advice on Claims and Failures

With our **breadth of experience and specialist knowledge** we provide **expert advice** on a range of ground problems, including contamination, slopes, foundations, tunnels, etc. We offer **expert services** for contractual claims, litigations, planning inquiries, etc, to local authorities, architects, engineers, lawyers, etc, and to private clients with ground problems.

Geodiversity and Geoconservation

Research consultancy projects and site enhancement works in geodiversity and geoconservation have been carried out with ALSF funding at and near active and former quarries as part of the sustainable aggregates initiative.



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