

Site Investigation

Environmental Scientifics Group's Geotechnical and Energy Division is the UK's market leading provider of geotechnical site investigations. The effects of ground behaviour on the built and natural environment can be far reaching. ESG's Site Investigation team provides the comprehensive information engineers require to avoid uncertainty and risk. Expert field operations backed up by UKAS accredited analytical testing and proven technical support draw on over 60 years experience in delivering high quality services.

Pioneers in ground investigation, the ESG Site Investigation team offer clients two key benefits – knowledge and reliability. Knowledge, because the information provided relating to ground behaviour is integral to design and construction. Reliability, because commercial risk increasingly relies on having the right information at the right time.

Services include:

- Ground investigation
- In situ testing, instrumentation and monitoring
- Geotechnical and geo-environmental laboratory testing
- Materials testing
- Topographic, hydrographic and geophysical surveys
- Technical services



Site Investigation



ESG's Geotechnical and Energy Division is a multi-disciplined organisation offering a range of technical services. Our depth and breadth of professional expertise, plant resource and extensive laboratory testing capability place us at the forefront of the ground investigation industry.

All phases of an investigation from desk study, walk over survey and initial risk assessment through intrusive investigation, laboratory testing, factual reporting and interpretation are covered. Projects vary in size from the ground investigation for foundations of individual buildings to multi-million pound land reclamation, highway schemes, power, rail, utility and industrial developments, both on land and over water.

ESG employ professional staff with a wide range of experience across numerous technical fields, including civil engineering, engineering geology, environmental science and chemistry, with many holding chartered status. Our commitment to quality is maintained by the provision of accredited management systems to ISO standards.

ESG's Site Investigation capabilities fall into six broad services:

Ground Investigation

With equipment ranging from hand held samplers to 20 tonne rotary rigs and marine drilling platforms, ESG's ground engineering experts provide a ready-made, versatile service with a proven track record and ability to cope with difficult site access across all ground conditions when collecting soil and rock for laboratory testing. Core depths of 300 metres can be achieved with in-house investigation rigs.

In Situ Testing, Instrumentation and Monitoring

Many years experience of in situ testing and on-site analysis has informed construction and foundation design decisions affected by groundwater, ground movement, settlement, gas and contamination. On-site analysis is also made possible using our specialist cone penetration testing trucks with on-board data analysis systems providing minimal soil disturbance and 'real-time' results.

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Laboratory Testing

Routine and specialist soil, rock, chemical and microbiological analysis supports our ground investigation services. ESG has the most extensive in-house soil testing resource in the business and has the largest effective stress testing laboratory in Europe. On-site laboratories can also be set up for rapid turnaround of results on large projects.

Materials Testing

ESG provide a complete testing, consultancy and advisory service on materials and products used at all stages of the construction process, right through to failure investigations. Conformance testing is undertaken to British Standards and engineers can formulate and advise on quality assurance and control systems for manufacturing, waste extraction and construction industries.

Topographic, Hydrographic and Geophysical Surveys

ESG's Geotechnical and Energy Division offer a full range of services for civil engineering, dredging, marine and inland waterway projects. Extensive experience and expertise of hydrographic, oceanographic and land and marine geophysical surveys covers projects across shallow and near-shore waters through the inter-tidal zone. In addition, land based projects are undertaken using a broad range of state-of-the-art geophysical and topographic techniques carried out either individually or as part of on-going ground investigations.

Technical Services

Technical advice and the provision of consultancy services are available from a large team of professional engineers and geologists and includes interpretive work on foundation design, slope stability and the causes of failure and settlement.



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