Delivering confidence, quality and results through innovation, safety and technical expertise.
Raeburn Drilling & Geotechnical Ltd is one of the Premier Ground Investigation Companies in the UK, and largest providers of Sonic Drilling in Europe.

Our LS250 Mini-Rota Sonic Drilling rigs can look very similar to many of our other rotary coring rigs. The main difference between these rigs is the Sonic head which generates high frequency vibratory forces acting vertically on the drill string to reduce friction and permit quick advancement of the sample barrel and casing into any formation.

Sonic Drilling offers an overburden drilling system which cases off the borehole on a continuous basis. This has a number of drilling benefits over traditional techniques including eliminating the possibility of borehole collapse and casing off zones of contamination during the drilling process. Production rates can also be considerably higher, often significantly reducing overall site time and ultimate project spend by minimising preliminary item costs such as the provision of site cabins, welfare, supervision etc.

Where drilling in sensitive environs or contaminated land, Sonic Drilling offers a safe, clean method of investigation. The unique way in which the sample is extruded from the barrel directly into the sample liner ensures Drilling Operatives do not come into contact with sampled material.

Sonic Drilling is proven to be the best and most reliable method of drilling where conditions are found to be difficult, with the technique demonstrably proven in dense granular cobble and boulder bearing strata and landfill sites where wood, metal and other obstructions are present.

The Sonic Drilling sampling process captures all materials encountered which is crucial for providing a full detailed geological profile of a borehole. Our Sonic rigs are also designed to undertake rotary drilling operations, including wireline, which allows unrivalled sampling extension of the borehole into bedrock. This offers an added cost saving to project spend through negating the requirement to mobilise additional drilling plant and personnel to site.

Our LS250 Mini-Rota Sonic Drilling rigs are capable of undertaking standard penetration testing and tube samples which can be captured using dedicated samplers incorporated in the drilling technique and advanced by static or dynamic means without the use of resonance.
Raeburn Drilling & Geotechnical Ltd (RDG) is based in Central Scotland with subsidiary companies located strategically throughout the UK in Aberdeen, Airdrie, Aston Clinton (near London), Belfast and Birmingham. Since the inception of the business in 1985, RDG has grown significantly due to various acquisitions and an increase in both client base and expertise. RDG is now a highly successful award-winning Company capable of delivering high quality multi-million pound Ground Investigation projects safely and to budget.

**History**
For ten years Raeburn Drilling was a local family-based business. The purchase of several companies in 1993 saw rapid growth and the creation of Raeburn Drilling & Geotechnical Ltd. This included the introduction of geologists, geotechnical and civil engineers, environmental scientists and a new UKAS laboratory testing facility which led to an increase in overall capability. Further acquisition saw the addition of a consultancy and chemical testing facility in Birmingham which enabled the Company to expand UK-Wide.

**Present**
The Company is now involved in major framework contracts for such prestigious clients as Scottish Water, Scottish & Southern Energy, Transport Scotland, International Consultants including Jacobs and Arup, and Local Authorities, with a 200+ strong team located around the UK. At RDG there is an unparalleled diverse range of plant that is suitable for every job. Our range of off-road low ground pressure bearing plant and equipment, blended with a team of experienced engineers from all disciplines and one of the UK’s largest nationwide in-house testing facilities ensures a solution is found for all Site/Ground Investigation projects.

RDG is the only Company based in Scotland and the UK offering a significant in-house Sonic Drilling capability to complement conventional modes of Ground Investigation intrusive techniques. This, combined with our significant engineering expertise, large laboratory testing capacity and experience in factual and interpretative reporting means that RDG is unique in this regard.

Recent awards by the British Drilling Association (BDA) and Ground Engineering (GE) for safety, innovation, collaboration and successful delivery of very complex major Ground Investigation projects in remote mountainous terrain have provided the perfect platform for RDG to display its excellence within the industry. These awards are testimony to RDG possessing the skill base and resources to deliver a service to the highest achievable standard.