



SERVICE DATA SHEET

Quality Control

Allied Exploration and Geotechnics Limited (AEG) have for many years carried out Quality Control Assessment (QCA) testing in connection with operational landfill sites, earthwork orientated reclamation schemes and highway construction projects. The company employs technician and engineering employees who are willing to operate on active sites throughout the Northeast, extending to other regions where required. Site performance is an essential requirement during earthwork activities in order to ensure that the specification objectives are achieved and fill materials are placed in an effective manner. The range of applications is varied, ranging from road construction sub-grade to landfill liner assessment, including source soil suitability. Testing procedures can be undertaken on site with material samples returned to the laboratory for priority testing turnaround. On-site procedures include in-situ density assessment using core cutter or sand replacement methods, including the recovery of disturbed samples of soil for suitability trials and compaction comparison studies.

Our Panda Probe (V2) apparatus can be rapidly deployed to determine the in-situ behaviour of placed cohesive and non-cohesive fills, highlighting weak spots in the compaction sequencing as well as general strata profiling applications. Other in-situ techniques such as plate load and hand vane testing, together with California Bearing Ratio (CBR) can be used to check sub-grade performance and durability after placement. Where hydraulic conductivity (permeability) is a critical component of landfill liner design, undisturbed or re-compacted samples of placed soil material can be analysed in our effective stress laboratory facilities.

Service Coverage

- ◆ **Compaction Control and Crane Platforms:** standard mounted in-situ CBR (or equivalent Mexe, TRRL or Panda probing techniques), plate load (300mm, 450mm or 600mm diameter plates) for the assessment of undrained strength and elastic load/settlement characteristics, shear strength (HSV), density determination (sand replacement and core cutter) and other geotechnical procedures.
- ◆ **Landfill (Clay) Liner:** in-situ density determination, placed shear strength, general material classification properties and permeability assessment.
- ◆ **Ground Corrosion:** resistivity testing using Wenner configuration for metallic pipes.
- ◆ **Sample Collection:** geotechnical and managed environmental laboratory testing services, the latter using a specialist sub-contractor at competitive rates.



Summary

Extensive experience in the Northeast of England.

Competent and trained site engineering or technician personnel who can operate under a call-out service arrangement.

Wide range of in-situ testing procedures offered with CBR, plate load and density determination encompassed by our UKAS accreditation schedule.

Fully costed service to the client with no hidden charges, including coverage by our management systems and submission of Standard Operating Procedures and risk assessment documentation.

Benefits

- The QCA site services are fully supported by an efficient in-house soil laboratory facility and can be fully integrated into the company's overall range of investigation services.
- Rapid local deployment and prompt turnaround times (from site test to certificate submission); dependent on laboratory procedure required.
- Most in-situ testing procedures covered by our UKAS accreditation schedule.
- Technical support available where required throughout the process.

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