



**Geo-Environmental**

# Supporting Housing Infrastructure

- Site Risk Assessment
- Environmental Consultancy
- Geotechnical Consultancy
- Remediation and Validation

Geo-Environmental Services is an International Geotechnical and Environmental Engineering Consultancy, part of the Geo-Environmental group of companies. Our consulting engineering team consists of Degree and Masters qualified consulting engineers, and include; Chartered Geologists, Chartered Environmentalists, Chartered Scientists. This experience is backed up by our use of the latest technology to support our investigations, a fully integrated management system, a range of health and safety accreditations and our membership of a range of industry bodies.

Since 1996 our team has undertaken geotechnical and environmental consultancy projects and site investigations to support new housing developments for major housing developers such as Linden Homes, Berkeley Homes, Persimmon Homes, Barratt Homes and Bellway Homes as well as private builds.

The services that we have provided have included:

- Phase 1 desk studies and phase 2 intrusive investigations;
- Soakage tests, landgas and groundwater monitoring;
- Slope stability analysis and design,
- Basement impact assessments and contaminated land assessments,
- Remediation strategies and validation reports - amongst others.

We value all of our clients, big or small, and it is our goal to provide a consistently high level of service to all of our clients. In all cases we have listened to our clients and shown that we are flexible, responsive in delivering their requirements and innovative in trying to accommodate budgetary restrictions, whilst providing a safe working environment for our staff, other contractors and members of the public.

[www.gesl.net](http://www.gesl.net)



# Boorley Green | Case Study

## Services Supplied on this Project:

- Design and scoping of an intrusive investigation;
- Surveying and utility tracing;
- Monitoring well installation;
- Geotechnical Assessment
  - Foundations and preliminary design (residential development)
  - Foundations and preliminary design (on associated structures)
  - Earthworks suitability and classification
  - Sub-surface concrete design;
- Geo-Environmental Assessment
  - Contamination risk assessment for human health, controlled waters and built environment
  - Ground gas risk assessment Continuous ground gas monitoring (using GasClams)

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## The Project

Geo-Environmental was instructed by PJH Development Consultancy Services to undertake an investigation for a development on the site of a hotel and leisure complex in Hampshire. The development was planned to contain 1400 new dwellings together with private and communal gardens, a school, community facilities, public open space and allotments. The investigation was to be undertaken on a working hotel and golf course complex, with a strategic oil pipeline running beneath the site.

## Expertise

Initially a walkover of the site was undertaken to identify where exploratory holes needed to be situated and to meet stakeholders. The green keepers were involved in this process as they had firsthand experience of working on the course.

Within one day of the site visits, risk assessments and method statements were produced and a preliminary investigation plan was drawn up in AutoCAD, which detailed the investigation method.

The position of each of the proposed exploratory positions was then surveyed by a specialist surveying team and a revised site investigation plan supplied to the project manager and Fisher German, whose interest was the Esso pipeline running under the site.

Progress was monitored on the project using our online project management system and any potential delays identified and mitigated.

## Benefits

The rapid transfer of investigation data from the site to the Project Manager enabled testing to commence at an early stage of the investigation and facilitated an effective logistical control in terms of supplies to site, transfer of samples to testing laboratories and management of personnel and operations on site. As a result of how we managed the project it was delivered on-time and budget.