

## Market Road, Islington, London

### Our Services

- Ground Investigation
- Interpretation of results
- Geotechnical Recommendations



### Geotechnical and Geoenvironmental Consultancy Services

CGL was appointed to supervise and interpret an intrusive geotechnical and geo-environmental ground investigation for a site off Market Road, Islington London and provide geotechnical recommendations for the proposed development which comprises mixed use, multi-storey structures.

The site is underlain by three Network Rail tunnels, known as the *Copenhagen Tunnels*. Blocks 'C' and 'D' of the development are to be constructed directly above the *Tunnels* and are subject to formal Network Rail approval procedures.

The intrusive investigation comprised the excavation of 12 rotary and dynamically sampled boreholes to a maximum depth of 30mbgl. In-situ testing was undertaken within each of the boreholes and geotechnical laboratory testing was undertaken on representative samples.

Standpipes were installed in five boreholes to allow repeat monitoring of groundwater levels.

VDISP analysis was used to calculate possible heave and settlement of the proposed raft foundations for each block, taking account of the phased excavation.

The geotechnical analysis was incorporated into the NR Form B submission which has been approved.

Geoenvironmental risk assessment and liaison with the environmental regulators to comply with planning conditions is currently in progress.

Client: Tonest Developments Limited  
Contractor: CC Ground Investigations Ltd