

Matford Park, Exeter

Our Services

- Desk Study
- Site Investigation
- Geotechnical Advice
- Contamination Testing



Ground Investigations for New Pylons

Western Power Distribution proposed to divert the Exeter-Matford Park 132kv overhead line to accommodate the development of an area 3 km to the south west of Exeter. This involved the construction of three new towers.

CGL was appointed by National Grid to investigate the ground conditions at the proposed location of the three new towers. Data were required on the potential for soil contamination, waste disposal classification and geotechnical parameters for foundation design, as well as groundwater level.

Ground conditions were alluvium and head deposits over Breccia with a fault nearby. The site was low lying, former marshland within a floodplain.

The investigation comprised a single borehole at each tower location using drive-in sampling methods through the near surface deposits and rotary drilling through the dense gravels and bedrock. In addition, two trial pits were excavated adjacent to one of the towers to obtain soil samples for geotechnical and chemical analysis.

Soil and groundwater conditions dictated piled foundations as being most appropriate for the proposed towers.

In order to assess the possible health and safety implications of the works and to classify material for waste disposal, contamination testing of soil samples was also undertaken.

Client: National Grid