

Rail Undercrossing, Chatham, Kent

Our Services

- Site Investigation
- Ground Movement Prediction
- Geotechnical Advice



Prediction of Ground Movements Resulting from Pipe Jacking

CGL assisted Earth Tech Engineering Limited of Haywards Heath (formerly BGP-Reid Crowther) with the prediction of ground movements associated with pipe jacking at shallow depths and with Category II checking.

Earth Tech provided design assistance to contractors Morrisons and RE Docwra on pipe jacking projects beneath railway lines in Kent, Surrey, Hertfordshire, Oxfordshire and West Sussex. The purpose of the crossings was to allow improvements in local water supply. This required micro tunnels of between 300mm and 1450mm to be constructed beneath live railway lines. **CGL** provided the specialist geotechnical advice at the various locations.

The prediction of settlements beneath the track was essential to provide the assurances that Railtrack, the train operators and the water companies required.

The picture shows the installation of the rail undercrossing at Chatham in Kent where a 324mm pipe was installed at a depth of approximately 3m through dense water bearing gravels. Movements were predicted to be no more than a few millimetres after completion of the initial drive.

Client: Earth Tech Engineering Limited
Contractor: Morrison and RE Docwra