

RAIL & TRACKSIDE SERVICES





INTRODUCTION

CET was established in 1987 as a provider of materials quality assurance testing to the construction industry. Since then, we have built a reputation for quality service and excellent value.

We expanded our capabilities to include integrated ground risk management solutions in 2012, with the addition of geotechnical and environmental consultancy, supported by in-house investigation services.

By 2013 we had expanded our range of services to include high-quality drainage evaluation and surveys.

CET maintains Link Up “Qualified via Audit” status for geotechnical and environmental consultancy, site investigation services, structural and drainage surveys.

SERVICES

GEOTECHNICAL CONSULTANCY

Our dedicated team of geotechnical consultants are experienced in providing technical advice on a wide range of issues affecting the rail industry. For more than 20 years they have been providing expert analysis and consultancy on the design of foundations for buildings and structures (such as UTX, URX, station platforms and signal gantries), slope stability assessments, track foundations, drainage design and earthworks design.

ENVIRONMENTAL CONSULTANCY

Our environmental consultants are on hand to provide technical services and advice throughout the lifecycle of your construction project. The team provides a range of professional services, including: contaminated land surveys during the planning phase; waste classification and acceptance criteria testing during construction; remediation strategies, validation testing and advice on management of leaks and spills while sites are operational.

SITE INVESTIGATION

Our engineering team has extensive experience of managing and carrying out site investigations for a range of rail infrastructure projects. We leverage this expertise to develop the competency of our drilling crews.

In addition to conventional shell and auger boring services, our crews operate a range of specialist, lightweight and portable equipment for undertaking ground investigations within the physically constrained sites that are typical within the rail environment.

STRUCTURAL SURVEYS

CET technicians are experienced in investigating all types of structure; from concrete and brick to steel framed and post tensioned. Our teams are experts in on-site data acquisition and utilise a wide range of techniques, including: half-cell potentials, Ferroskan re-bar mapping, concrete sampling and coring for strength analysis and chloride impregnation profiles.

Forensic analysis of structures is also undertaken and includes crack monitoring, tilt, orientation and vibration; using both traditional, on-site, and remote investigation methods. Our unique “bridge bash” sensor can detect an impact to a structure with instant notification via SMS or e-mail. This innovative feature provides a crucial early warning of a potentially hazardous situation.

DRAINAGE SURVEYS

Our drainage specialists utilise state-of-the art technologies to carry out surveys of both surface water and foul water draining systems for rail facilities, including stations and depots.

Bespoke reports include detailed analysis and recommendations based on CCTV system surveys, sonar detection and CAD drawings for drainage maps.

PAINT AND COATINGS SURVEYS

CET also provides a complete solution for condition surveys of paint coatings; including paint inspection, coating condition surveys, paint testing, failure analysis, quality control and document review.

BENEFITS

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CET provides an integrated, multi-disciplinary ground risk management service. Our geotechnical and environmental consultancy teams are supported by in-house site investigation and materials testing services; an approach that allows us to deliver significant cost and quality benefits to our clients:

- Reduce costs by eliminating the need to procure or manage investigations from third parties
- A single point of contact ensures effective communication and is ultimately responsible for quality assurance
- Professional engineers and environmental scientists supervise projects; ensuring that the scope of investigations is managed to maximise data acquisition whilst minimising costs
- Projects controls are maintained by using in-house resources and approved supply-chain partnersprogramme
- Ground risk management services are enhanced by complementary drainage and structural investigations

CET is able to deliver genuine business value by enabling our clients to effectively assess the condition of their rail and trackside assets, prioritise maintenance and ensure specification compliance of any remedial works.



EXPERIENCE

Since achieving Link Up status in January 2013, CET has undertaken over 150 rail infrastructure projects, here are just a few examples:

LNE FRAMEWORK

CET have provided a wide range of services throughout the LNE territory; including forensic investigation of damp related defects, geotechnical investigation of subsidence, drainage condition and layout surveys, topographic and building surveys, paint and coating surveys on a variety of assets – from footbridges to stations and depots.

STATION CAR PARK INVESTIGATIONS

Services included site investigation (by means of cable percussion and driven window sampler boreholes) geotechnical and environmental consultancy and risk assessment for the redevelopment of four station car parks in Hampshire, featuring multi story car parking facilities.

UCKFIELD STATION CAR PARK

Geotechnical and environmental consultancy; including in-house site investigation by means of driven window sampler boreholes and both on-site and laboratory testing to support the proposed development of a new car park – the project specifically included the stability assessment of a rock slope, with advice on appropriate remediation.

WEST ANGLIAN MAIN LINE IMPROVEMENTS

CET provided site investigation services, using cable percussion boreholes, driven window sampler boreholes and hand dug trial pits. We also provided geotechnical and environmental testing for the construction of major upgrade project.

CROSSRAIL

CET established two UKAS accredited laboratories to sample, test and report on concrete relating to both concrete segments production and sprayed tunnel concrete.

Our laboratories were commissioned and fully operational within six week of award and remained in-situ for over 3 years. Our flexible UKAS accreditation allowed us to reduce costs and minimise delays to start-up resulting from materials testing.

“ CET provide us with cost effective, practical advice to help us manage geotechnical and environmental risks ”

FRANKHAM CONSULTANCY GROUP





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