

Lok 'n Store Development, Reading

Our Services

- Review of Desk Study
- Site Investigation
- Gas Protection Act
- Foundation Advice
- Liaison with Regulator



Combined Geotechnical and Geoenvironmental Investigation

The former SGB Depot site on the A33 Relief Road, Reading, is being redeveloped by Lok'nStore Limited.

CGL was commissioned to review an existing desk study and undertake an intrusive ground investigation in order to determine the ground and groundwater conditions and the potential for soil and groundwater contamination, in order to address planning conditions. **CGL** also provided recommendations for geotechnical design.

The intrusive investigation was planned to achieve minimal disturbance to the site to avoid damage to any possible archaeological remains.

Both window sample holes and deep cable percussive boreholes were excavated to determine the local ground conditions and to provide samples for geotechnical and contamination testing. Standpipes were installed in 5 of the exploratory holes for gas and groundwater monitoring.

The results of the chemical testing indicated negligible concentrations of contaminants in both the soil and leachate. Groundwater testing indicated minimal lead concentrations in one borehole. Samples taken from the Holy Brook indicated minimal levels of lead upstream of the site, but not downstream.

Through pragmatic assessment of the site in the context of its surroundings, it was deemed likely that the lead levels in the borehole were due to an off-site source and not indicative of gross contamination at the site. Further risk assessment and remediation were therefore unnecessary.

Gas monitoring indicated that the site would need gas protection measures.

Geotechnical recommendations included safe working loads for pile design and data for pavement and buried concrete designs.

Client: Lok 'n Store Limited