

**Lydia Crawford** BSc (Hons) CEnv MEnvSc FGS  
**Director of JPP Geotechnical & Environmental**



Lydia is a highly motivated leader and passionate engineer with more than 18 years of experience. She was appointed Director of JPP Geotechnical & Environmental at its inception in January 2018.

Lydia's geo-environmental engineering experience includes Phase I (desk studies) and Phase II intrusive investigations ranging to complex contamination assessments; including Detailed Quantitative Risk Assessments, Remediation Strategies as well as Verification and Waste Classification with expertise from Scoping Investigations through to conducting and overseeing. She is experienced in liaising with clients, contractors and regulators at early stages to determine the most cost effective and appropriate investigation strategy.

Lydia's geotechnical expertise ranges from EC7 compliant Foundation Assessments to Coal Mining Risk Assessments, Basement Impact Assessments, Slope Stability Analysis, Earthworks Specifications, Working Platform Assessments, Floor slab Investigations, Structural Material Investigations (alongside Structural Engineers) and Subsidence Investigations.

She has project experience in small to large scale housing schemes on brownfield and greenfield sites, schools, industrial and commercial redevelopments and multi-storey construction within Central London and across the UK.

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## Grange Park, Northampton



JPP Geotechnical & Environmental completed a strategic ground investigation in Grange Park, Northamptonshire for the proposed 900 dwellings with associated access and infrastructure.



A pre start meeting and close liaison was required with the landowners and archaeologists to determine the pre-start methodology for the ground investigation works whilst causing the least damage to the agricultural fields and any potential archaeology on site.

The geology on site comprised of the Great Oolite Group which was extremely viable with clays, sands and limestone rock encountered which has also been encountered in many other sites in Northamptonshire and Bedfordshire.

Due to the strategic nature of the ground investigation based on the large size of site, the machine excavated trial pit locations were set out on a 50m grid by JPP Surveying and the trial pits did encounter extremely variable soils and limestone rock with BRE365 soakage testing targeting the granular soils of the Northampton Sand Formation.

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## Kidlington, Oxfordshire



JPP Geotechnical & Environmental were appointed by Manor Oak Homes to complete a ground investigation in Kidlington, Oxfordshire for a proposed residential development. The site comprised agricultural fields, orchards and associated dilapidated farm buildings.

Stiff clay was indeed encountered across the majority of the site as well as sand in the west of the site allowing for a traditional foundation solution with deepening for boundary trees and hedgerows as per NHBC Chapter 4.2 where the clay was present. The windowless sampler boreholes in the farm yard found asbestos fibres present in the soil (most likely from the asbestos farm buildings roofs) and therefore a remediation strategy will be required in that area of the site.



The geology underlying the site was River Terrace Deposits (sand and gravel) in the west of the site over the Oxford Clay and therefore BRE365 soakage testing was complete to target the sand gravel present to try to allow infiltration to work on site. The ground investigation work consisted of 2 days of machine excavated trial pits in the agricultural fields and 1 day of windowless sampler boreholes around the dilapidated farm buildings and yard areas.



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## Kings Lynn Ground Investigation



JPP completed a ground investigation in Kings Lynn, Norfolk for proposed residential units.

The ground investigation comprised Windowless Sampler boreholes, Cable Percussive boreholes and extensive groundwater testing and ground gas monitoring.

The site was located on reclaimed land from the sea and therefore the foundation solution was recommended to be piled into the competent bedrock underlying the site.



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