Anthony Paton BSc (Hons) MSc MIEnvSc FGS
Director of JPP Geotechnical & Environmental

Anthony studied Geography and Geology BSc and then an MSc in Engineering Geology at the University of Leeds (2009-2013). Soon after, he became a Fellow of the Geological Society as well as a Member of the Institute of Environmental Sciences and he is currently working towards his Geological Society Chartership.

Anthony moved to JPP in February 2018 at the start of the newly formed Geotechnical & Environmental team. He was excited by the challenge of setting up a new department within a larger organisation and growing the business. Generally, his strengths are tendering for work, ground investigation organisation and completion as well as managing the team of geo-environmental engineers and technicians on a day to day basis.

Anthony has also overseen and managed ground investigations (up to £75k) where pre-start meetings and close liaisons were required with various stakeholders to determine the best methodology and programme for the ground investigation works whilst causing the least disruption to the sensitive site and any potential archaeology on site.

On large and complex sites, he has organised and managed ground investigations that have been blighted with deep coal mining, and therefore a Coal Mining Risk Assessment was completed along with the Phase I and II Ground Investigation report. More recently, he has tendered and won work for the ground investigation at a Premiership football club where a new stand is proposed. Detailed discussions were held with the club along with their designers in terms of health and safety, site works programming and investigation methodology due to weak rock being present underlying the site.

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Professional Advice
Geotechnical & Environmental
Surveying

Tuttle Hill, Nuneaton

JPP have completed a ground investigation for Linden Care Homes at a former factory site which was recently demolished to floor slab level.

The ground investigation comprised of trial pitting with an excavator and the installation of ground gas and groundwater monitoring wells. A historic works building had been present on site for nearly 100 years and therefore the site was considered to have a high risk of contamination.

JPP tested for a range of contaminants including metals, metalloids, PAHs, petroleum hydrocarbons, VOCs and asbestos. During the post fieldwork monitoring visits to site, groundwater samples were collected by our technician and tested for contaminants. There was some contamination present and therefore a remediation strategy was written for the site and submitted to the local authority to discharge planning conditions.

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Edinburgh Ground Investigation

JPP completed a ground investigation in Edinburgh for a large and complex site for proposed residential properties.

The area of Edinburgh had been blighted with deep coal mining and therefore a Coal Mining Risk Assessment was also written as well as the Phase I and II Ground Investigation report.

Detailed analysis of the historic coal mining information was required to inform the client for further intrusive works to identify the historic coal mines underlying the site.

Although the site was agricultural fields at the time of the investigation, areas of deep made ground associated with the coal mining was identified and associated contamination testing associated with the former site usages was undertaken.

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Residential Development, Houlton, Rugby

JPP Geotechnical and Environmental were appointed to undertake a supplementary geotechnical ground investigation to assist our in-house structural engineers on a prestigious residential project in Houlton. Our geotechnical design team specified and undertook a parcel-specific supplementary geotechnical ground investigation using trial pitting techniques to allow the refinement of the proposed foundation solutions on a plot-by-plot basis.

Undertaking the supplementary geotechnical ground investigation, geotechnical testing and detailed soil logging enabled our geotechnical team to provide the structural engineers with an increased allowable bearing capacity.

The additional targeted geotechnical ground investigation, which was carried out on top of a standard site wide Phase II ground investigation, enabled JPP to reduce foundation depths across the site by 350mm. This reduction in foundation depths provided our client with a significant time and cost saving with respect to the earthworks and foundation phases of the development by reducing the volume of foundation arisings produced and reducing the volume of concrete imported into site.

The reduction in exporting volumes of waste soils and reduced concrete volumes also plays a key role in managing and reducing the associated carbon footprint of residential developments enabling our clients to meet their environmental responsibilities.

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