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**CLIENT
STORY**



**Keynetix
Geotechnical Data
Management Awards
2014
Winner**

GIP needed to plan site investigation avoiding a suspected Roman Road without a co-ordinate based plan.

Here's how Keynetix helped them do just that.



Geotechnical Data
Software Transformed

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GIP Ltd. are using these Keynetix products:

- **HoleBASE SI Professional**
- **HoleBASE SI Standard**
- **HoleBASE SI Extension for Microsoft Excel**
- **HoleBASE SI Template Studio**
- **KeyAGS**

 **HoleBASE SI's** digital mapping technology gave us a rapid solution to obtaining co-ordinates for the proposed exploratory positions. Using a relatively inexpensive GPS tool, we were able to set out the holes in a cost effective way that also gave us confidence that they were located accurately. 

BUSINESS SITUATION

GIP (Ground Investigation & Piling) are one of the largest geo-environmental and geotechnical engineering companies of their kind in the Midlands, UK, providing a comprehensive range of ground investigation, contamination survey and geotechnical services to a large and diverse client base.

THE TECHNICAL REALITY

A ground investigation was required as a scoping exercise pre-land sale. The site comprised of several fields, some large and essentially featureless with no real points of reference.

No topographic survey had been carried out at the time. Numerous ecological interests were to be avoided as was the path of a suspected Roman Road. The problem was how to mark out the positions with relatively good accuracy without a co-ordinate based plan?

The Roman Road location was supplied to the project by the archaeologist working for the Local Authority in DXF format and imported and overlaid onto the other mapping layers to assist in the planning process. As a result one of the positions was moved, as it coincided with the Roman Road. Once the positions were agreed with the client, they were outputted to a CSV file which was then used to set out the positions. On other projects, GIP have imported CSV in a Garmin GPS device to position exploratory holes. This has an accuracy good enough for setting out if the exact positions are to be surveyed at a later date.



THE BENEFITS

The mapping tools on **HoleBASE SI Professional** have proved invaluable in planning ground investigations. A high quality plan can be produced to help to give the client an idea of the scope of works at the estimate/quotation stage and plans can be updated quickly to reflect changes in the locations. In addition - satellite imagery assists where no topography survey is available (a large proportion) and BGS mapping and borehole information provides the (almost uncanny in some client's eyes) ability to predict what is likely to be encountered, target specific features and make the quotation more accurate.

**Chris Bullas, Associate Director
GIP LTD**

THE SOLUTION

The investigation positions were set out using the Aerial Photography and mapping tools within **HoleBASE SI Professional**. The distance tools were used to ensure all positions were a minimum of 15km away from trees that were potential bat roosts and hedgerows.