

## CASE STUDY KINGS WORTHY, WINCHESTER

### Project Description

#### The Contract:

Geotechnical Engineering Ltd (GEL) was contracted by LSTC to perform a Geotechnical Investigation on two adjacent farms either side of the A34 dual carriageway near Kings Worthy, Winchester.

#### The Challenge:

GEL were required to drill two boreholes to a maximum of 10 meters below ground level with insitu testing. The investigation would provide geotechnical information for the under road crossing of electricity cables. One of the farms had horses so it was imperative to make as little disturbance as possible to the ground and to ensure all holes were backfilled safely. Movement between locations was restricted by a low level bridge.

#### The Solution:

GEL decided the most suitable rig for the site works would be the Pioneer due to safety considerations and the underlying shallow chalk geology. The Pioneer is capable of undertaking dynamic sampling in addition to rotary coring for more competent chalk bedrock. As a result the high quality samples that were obtained meant that detailed descriptions in accordance with the CIRIA (C574) method for chalk descriptions could be achieved. The rig also offers the added benefit of minimal ground disturbance and debris, which due to the presence of horses at one of the locations was of importance. All of this together gave an advantage over the initially proposed cable percussion rig.

#### The Testimonial:

*"I would just like to thank your engineer Oliver Pritchard and the drillers for the work undertaken at Kings Worthy on the 16<sup>th</sup> February 2012. The drilling of two pioneer boreholes was undertaken in a very professional manner and in a shorter space of time than I had envisioned.*

*Even in today's safety conscious work environment it is all too easy for work crews to ignore such vital points as actually digging to the necessary 1.2mbgl to check for services in any started pits. With your internal system whereby the engineer on site signs off that the necessary depth was reached even in the chalk encountered on this site, 1.2mbgl was reached before drilling commenced. To me this system is very sensible and must be commended. High visibility clothing and hard hats ETC were worn without grumbling; again this is really good to see.*

*All my specific site instructions were undertaken without question and in the way I instructed, it has become very beneficial to work on a regular basis with Olly as I believe he now understands what we require without having to explain it numerous times. The lead driller was very friendly and approachable and knew what he was doing.*

*It is always nice for a job to run this smoothly and it is greatly appreciated. I look forward to future jobs with yourselves and hope that they all run as well as this one."..... Alex Triffitt, LSTC*

### Project Overview

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**Project Name:**

Kings Worthy

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**Project Type:**

Geotechnical Investigation

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**Client Name:**

LSTC

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**Date/Duration:**

February 2012: 2 Days

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