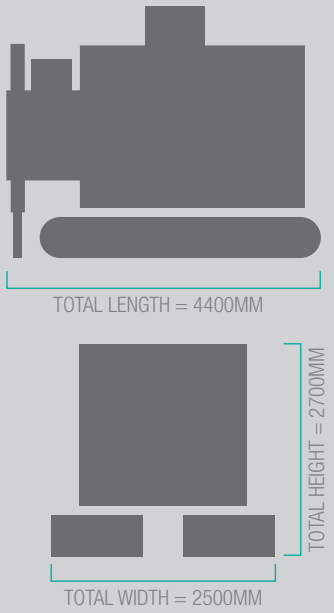
14 TONNE MOUNTED RIGS (CPT005 and CPT006)

We have two 14 tonne track mounted CPT rigs, each weighing 14 tonnes. One of our rigs, CPT005, 'Erik' is based in the Middle East and the other, CPT006, 'Zoe' in the UK. These rigs have low ground bearing pressure and are ideal for soft, boggy sites. They are capable of pushing up to 120 metres a day, depending on access to positions.

CPT RIG DETAILS

TOTAL WEIGHT	14 TONNES
CPT RAM THRUST CAPACITY	20 TONNES
MAXIMUM PENETRATION	20-30M DEPENDING ON THE GROUND CONDITIONS
PERFORMANCE RATES	120M OF TESTING IN A DAY DEPENDING ON ACCESS TO POSITIONS
TYPICAL SITES FOR THIS RIG	SOFT BOGGY SITES. THE RIG HAS LOW GROUND BEARING PRESSURE

CPT RIG DIMENSIONS



London

Cornwall

County Cork, Ireland

PROJECT REVIEW

SOLIHULL, ENGLAND (CPT006)

Cone penetration testing (CPT) was required in the grounds of a primary school in Solihull before the erection of a new outbuilding. The extent of an infilled pond and the strength of the underlying material were to be determined.

In order for the work to commence promptly the CPT rig had been delivered to site the night before. Care was taken to not damage the paving which had been newly laid around the building site. The surface on site was uneven and rocky, for which In Situ's crawler rig was perfectly suited.

There were 20 positions to be completed and the target was to penetrate about 2 metres into the Mercia mudstone that was underlying the site. Because of the difficult ground conditions (e.g. larger stones deflecting the cone, very hard ground) a few tests could not go to depth to avoid damaging the equipment, but where possible the test was retried a short distance away from the original position and in all instances except one the retry went to depth.

The client was kept informed of progress at all times and often chose to observe testing to read the raw data obtained during probing in order to gain a preliminary understanding of ground composition and conditions. With this knowledge, the client was satisfied that enough data had been collected and chose not to again retry the one location which had not gone to depth during the second attempt. Testing was completed in one day.

MIHPT and CPT PROBING - MIDDLE EAST (CPT005)

In Situ Site Investigation completed a project comprising of 9 CPTs and 9 MiHpt tests inside a live hydrocarbon processing facility located within oil fields in the Middle East. The investigation was aimed at identifying the source and migration of several areas of hydrocarbon contamination, and the surrounding ground conditions.

Despite difficult site and environmental conditions, (including temperatures of around 50 degrees centigrade!), all testing was carried out in accordance with our client's timescales and requirements and high-quality data was obtained, including:

- FID and PID profile logs
- Electrical Conductivity Data
- Hydraulic Profiling (permeability) and Hydraulic Conductivity logs
- High Quality CPTu Data

Berkshire

Devon

West Sussex

Middle East

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