

# CASE STUDY

## STRAND EAST



### CPT'S CLEAN SWEEP IN STRATFORD

A variety of cone penetration testing techniques were used on a recent ground contamination investigation in Stratford, London, for Harrison Group.

Lankelma undertook magnetometer testing to clear the site of unexploded ordnance (UXO), Membrane Interface Probe (MIP) testing for detecting inorganic contamination and conventional CPTs to gather data for the determination of geotechnical parameters.

In total 68 magnetometer tests, 15 CPTs and 15 MIP tests were successfully executed using Lankelma's 6x6 truck mounted CPT unit, UK17. The rig's high reaction force of 31T proved essential for carrying out

the ground investigation through underlying soft silts, dense terrace gravels and London clay.

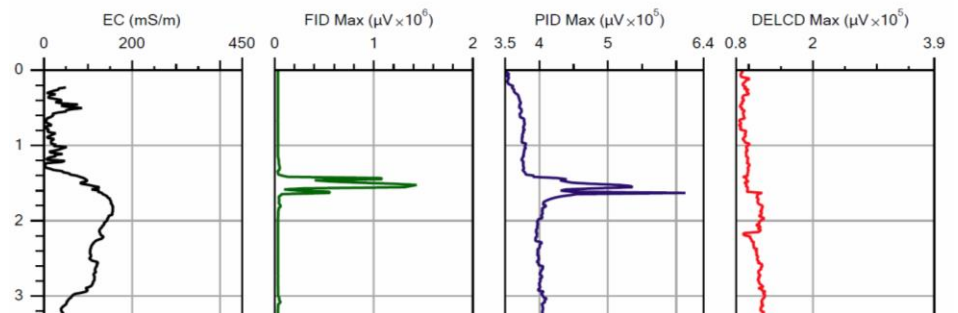
Most impressive of the testing completed at Strand East was the

PROJECT SPECIFICATION	
LOCATION	Strand East, London
CLIENT	Harrison Group
DATE OF WORKS	June 2014
TESTING UNDERTAKEN	CPT MIP Magnetometer
RIG	UK17

use of Lankelma's MIP environmental cone that helps rapidly locate potential contaminant plumes prior to construction.

The MIP is a direct push tool used to log relative concentrations of volatile organic compounds (VOCs) with depth. Not only can it detect both chlorinated and non-chlorinated VOC contaminants, it is also able to log contamination in saturated, unsaturated, coarse and fine grain soils.

Like CPT testing, the results are instantly displayed on the screen, helping engineers to focus testing around the site. This, coupled with CPT data can not only locate contaminants but can also provide an understanding of the plume within the sedimentary sequence.



[www.lankelma.com](http://www.lankelma.com)