



Client: TFL— Metronet
Main Contractor: TT Pumps Ltd
Dates: August 2007 - May 2008



Background:

The project was to upgrade the East London Line cables and cable management system to allow for new power and control cables feeding from LU incomer supply cabinets to new TT- pumps control panel to 3 separate submersible pumps.

The project work was to be carried out within the Brunel Tunnel between Rotherhithe and Wapping stations of 10 work sites:

- Brunel Tunnel
- Rotherhithe Station
- Wapping Station

Scope of work:

The project required carrying out the following works to the Main, Dip and Mini dip pumps.

- Survey and Design
- Produce Method statements and Risk assessments for cable and CMS installation
- Installation of Cable Management System in upper & lower machine rooms
- Core drilling
- Installation of 95mm CY braided power cable
- Straight Jointing of 95mm CY braided power cable
- Installation of 50mm SWA power cables
- Installation of 1.5mm transducer cable
- Suspending Heavy duty cable containment in machine rooms
- Pull testing
- Installation of heavy cables from rear of Engineering Train
- Procure and transport heavy power cables to site

Key Success factors and Innovations:

Methodology and pre planning by Kelly ITS management to work around other East London line works including total track replacement, and risks associated with manual handling heavy cables. Flexibility in being able to store cables, provide plant and foresight in planning stage to ensure cables could be delivered and stored on disused platforms at Rotherhithe station till required.

Design of CMS to support the heavy 95mm CY braided cables suspended on tray work from ceilings within the Upper and Lower machine room chambers at Rotherhithe station.

