

ENGIE, UK

Ice Pigging Case Study

ENGIE is a leading energy and services company focused on three key activities: production and supply of energy, facilities management and regeneration. With 17,000 employees, they combine these capabilities for the benefit of individuals, businesses and communities throughout the UK & Ireland.

The Challenge

Newly installed district heating pipework needed to undergo a pre-commissioning clean to remove swarf and fabrication debris before becoming operational. A conventional flush would take up to 2 weeks to complete and would have high flow and pumping costs.

Key Requirements

- ▶ Remove fabrication and debris to prepare pipe for service
- ▶ Minimise time taken to clean pipework
- ▶ Utilise existing fittings rather than modify network

The Results

- ✓ Clean time reduced from two weeks to one day
- ✓ 64kg of sediment removed from pipework
- ✓ Rigid foam insulation recovered from network, which would have resulted in a blockage.
- ✓ No chemicals used in process

The Project - District Heating

Ice Pigging was used to clean **1560m of 300mm diameter** district cooling pipework for **Engie** in Stratford, London. The pipework had been newly installed as an extension to the Angel Lane District Cooling Network.



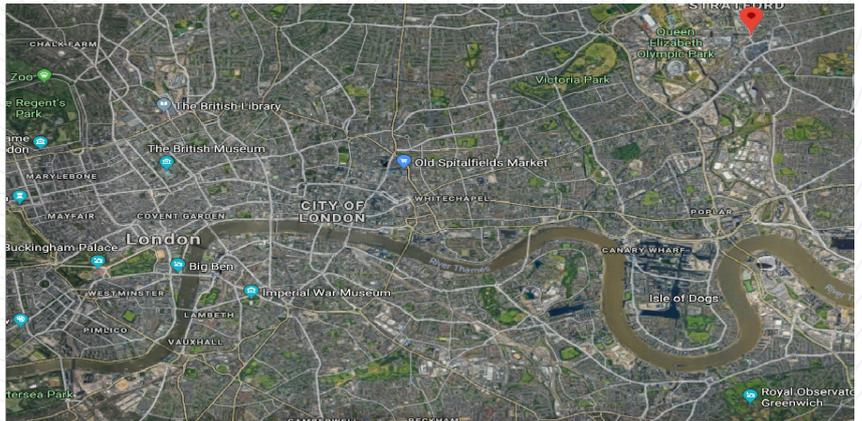
Samples taken from outlet (earliest on left)

SUEZ has partnered with **ENGIE** on a number of pre-commission network cleans, and due to previous success was reappointed for this project.

The ice slurry was inserted and removed from the pipe using existing fill and drain vents, so **no network modifications** were required.

Despite a relatively **low water flow** obtained from the energy centre, the operation only took a **day to complete**.

Over **60kg of sediment removed** from the network, along with a large piece of foam insulation which would have caused a significant blockage if left in place.



London Districts Map

UTILITIES



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