

# Water Lane, Newark

Installing a cofferdam for a new outfall structure into the river trent.



**AARSLEFF**

Aarsleff Ground Engineering have completed on site installing and extracting a sheet piled cofferdam on Water Lane in Newark, as part of waste and water improvements in the town. Severn Trent's £60 million investment to upgrade Newark's sewerage and water systems will help protect over 400 homes that are currently at risk from flooding.

The project was Aarsleff's fourth sheet piling contract on the scheme, having previously installed sheet piles for a cofferdam on Harcourt Street and two sheet piling projects on Queens Road, all which were awarded and completed within a two-year period.

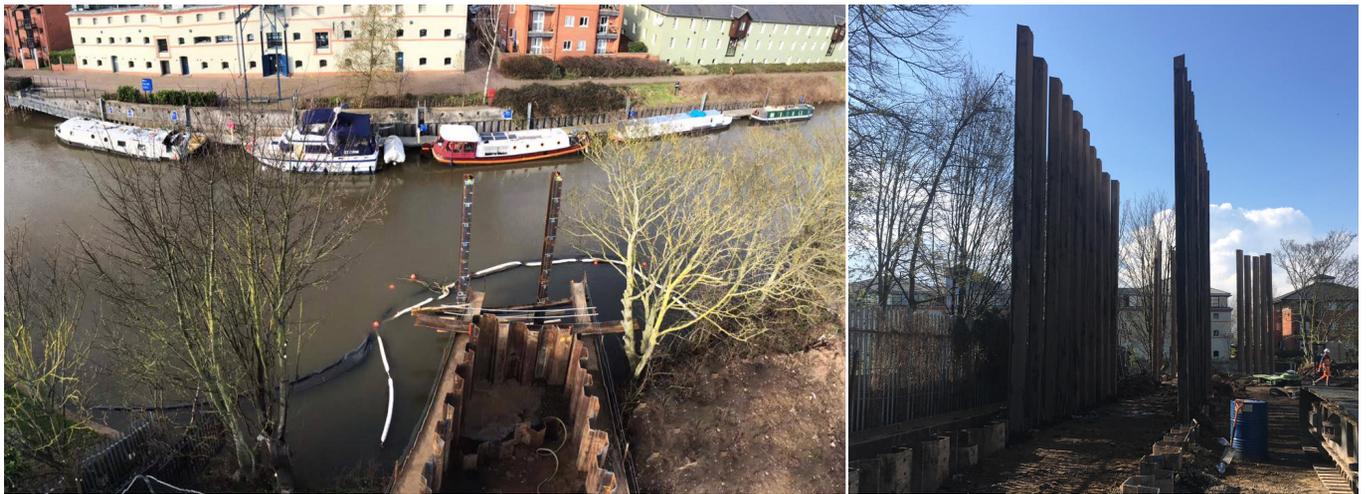
Whilst on site, Aarsleff utilised their vibratory hammer rig to install 254No. L605 temporary sheet piles of 10m to form a cofferdam that extended into the river Trent. Before commencing works, Aarsleff installed a temporary silt curtain and oil boom around the working area in the river to help protect the surrounding environment and prevent any contaminate liquids and riverbed dirt drifting down the Trent.

The works allowed the BNM Alliance to replace a new outfall structure, along with repairing and relining the current culvert that was situated underneath Water Lane. Once the repairs and new outfall were finished, Aarsleff returned to the site to remove the sheet piles, silt curtain and oil boom.

Aarsleff's Senior Technical Estimator Ashley Carter said, "It is a great endorsement of Aarsleff's work that we have been awarded another contract for the same scheme in Newark."

"We have previously installed Cofferdam's for the scheme, but this one involved working over the River Trent, retaining the water for Nmnc to replace a new outfall structure."

Aarsleff commenced sheet piling works at the beginning of January, with the install taking 6-weeks to complete. The extraction of the piles took place 5-weeks after installation of the piles.



**Scope of Works**

254No. L605 sheet piles of 10m

**Contractor**

Nmnc & Barhale,  
part of the BNM Alliance

**Equipment**

High-Frequency Vibratory rig  
Crawler Crane

**Construction period**

Installation: 8th January - 13th February 2019  
Extraction: 25th March - 12th April

Aarsleff Ground Engineering Ltd, is the UK trading arm of Danish contracting giant Per Aarsleff A/S, and is one of the UK's leading piling and geotechnical design and installation specialist contractors; actively promoting early consultation to ensure each scheme can be Value Engineered to give clients the best service, quality design, safety and value. Aarsleff's strategy and philosophy of investment into the future has resulted in its wholly owned subsidiary Centrum Pile Ltd having the most advanced precast pile production facilities in the UK, producing segmentally jointed precast concrete piles to BS En12794 to Class 1A.

**Contact**

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