

Project Case Study: St Anthony's, Newcastle

Services: Site Enabling, Land Remediation



Demolition | Enabling Earthworks | Remediation | Drilling | Civil Engineering | Plant & Technology | Geotechnical | Environmental | Planning | Renewable Energy

The Sirius Group: Confidence you can build on

Client: Newcastle City Council

Project: Installation of an In-Situ Soil Mix Barrier, St Anthony's, Newcastle

Duration: 6 months (Barrier Installation)
6 months (Drainage Installation)

Services: Site Enabling, Land Remediation

Sector: Public Sector

Contract value: £1.7m



Positioning bracing inside sheet piles to enable the installation of large below ground interceptors

Site History

In the late 1890's the Newcastle and Gateshead Gas Company acquired the site to build a coal tar distillery. Coal tars were produced as a bi-product by town gas works, which produced gas from coal. The coal tars were distilled into useful products including pitch for road construction, creosote for wood preservation and benzene to replace petrol in road transport.

The various products needed to be separated and stored, and the tanks and distillation chambers were a dominant feature of the site at St Anthony's. St Anthony's Tar Works operated between 1920 and 1981 during which thousands of litres of tar were lost to ground. The operation of the tar works resulted in leaks and spills of coal tar hydrocarbons that accumulated in large quantities in the permeable ballast layer beneath the site. These substances have flowed into the River Tyne, seriously polluting the river.

Since its closure several investigations have been undertaken to better understand the extent of the contamination and also the ground conditions, there have also been two previous failed remedial schemes attempted at the site.

Sirius' involvement in the site began in 2009 which consisted of further site investigation, risk assessment, remediation options appraisal, remediation strategy and obtaining approvals for remediation. After funding was granted by Growth Deals to the North East Local Enterprise Partnership Sirius successfully tendered to carry out the agreed scope of remedial works and following completion of feasibility testing mobilised to site in February 2016.



Early images of the St Anthony's Tar Works site on the banks of the River Tyne

Project Validation

The barrier works were comprehensively validated through retrieval of cores from the barrier itself and medium/long term groundwater monitoring, the works were independently supervised by an environmental consultancy on behalf of the client, Newcastle City Council. All parties are extremely happy with the works successful completed to date.



The site – river footpath (part of Hadrian's Way)



Grout and soil mix within leader trench



Then and now: Aerial comparison of the site of St Anthony's Tar Works on the banks of the River Tyne

Demolition, earthworks, remediation, drilling and civil engineering contractors.
Geotechnical, environmental and planning consultants. Renewable Energy.

Sirius Offices:

North East Tel: 0191 378 9972
North West Tel: 01942 718 551
Central Tel: 0113 264 9960
Wales Tel: 01554 780 544

Email: info@thesiriusgroup.com

Website: www.thesiriusgroup.com

Follow **thesiriusgroup** on:

