# Gateshead Project

## Project Details

- **Client:** Thompsons of Prudhoe
- **Project Duration:** 2 weeks for Lime Modification Works
- **Main Contractor:** Taylor Wimpey
- **Area Stabilised:** 9,000 cu.m.
- **Soil Type:** Made Ground / Cohesive Mix
- **Specialist Plant:** Wirtgen WR2500S Mixer and Tractor Mounted Spreader

## Project Description

The site was a former Staithes Gas Works in Dunston, Gateshead which was being developed by Taylor Wimpey to form a residential development.

As our team had worked successfully with Thompsons of Prudhoe on previous contracts in the North East, TR Stabilisation were contacted to assist with the Lime Stabilisation / Bulk Modification works.

## What Was Done

Soil samples were collected from site and our UKAS accredited, independent laboratory carried out a mix-design to ascertain binder additions required to achieve the specified 5% CBR. The tests showed that incorporating 2% quicklime to the existing material would give an overall end CBR value of 5%.

Once the powder additions were determined works commenced on site late October 2012. Thompsons of Prudhoe were to prepare the working area by excavating and replacing the material in 300mm layers ready for treatment by ourselves. The quicklime was applied to the working area using a Streumaster tractor mounted Spreader with spread checks taking place to confirm that the correct amount of powder had been distributed. This was then mixed into the existing material using a Wirtgen WR2500S Mixer. Compaction followed using a state of the art Hamm H 18i Smooth Drum Roller which is the first in the UK of its kind.

Compliance checks were continuously carried out on site whilst the works progressed, again by an independent UKAS accredited laboratory to confirm the 5% CBR requirement had been met.

Despite October typically having adverse weather for earthworks operations, the fast acting drying properties of the quicklime meant that wet working was not an issue and works were completed on programme.

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**BEFORE**  
![Before Image](image1)

**AFTER**  
![After Image](image2)