



# Soil Science



## Case Study

# National Gas Feeder 3 Pipeline Diversion

**Soil Science Installed access roads, compounds and working platforms for A.Hak Pipelines & Facilities UK on the National Gas Feeder 3 Pipeline Diversion scheme in August and September 2023.**

### SUREGROUND™

## Reversible Soil Enhancement System

# Cost Reduction

10-30% Cost Saving using Sureground vs Conventional Stone Designs

711 (Approx.)  
8-Wheel  
Tipper Lorry  
Movements  
Reduced

# 5 weeks

Programme Saving

12,813t  
(Approx.) Reduction  
In Imported  
Aggregate

# 47%

Carbon Reduction

13,347m<sup>2</sup>  
(Approx.) Treated  
Area For  
Temporary  
Construction



# SUREGROUND™ Reversible Soil Enhancement System



Soil Science began testing and sampling in July 2023, for A.Hak on the National Gas Diversion scheme in Norfolk.. This being a vital aspect of the pre-construction activities prior to installing compounds, haul roads and working platforms for the enabling works for the Gas diversion scheme. Pre-Construction activities also included Landowner meetings to discuss the methodology being used.

Using SUREGROUND (Patent Pending) reversible binder, Soil Science then enhanced existing subsoil on site to achieve a minimum of 350kn/M2, in many areas on the project this well exceeded 700kn/m2 without affecting the agreed contract value for the works. Following this, Soil Science then laid and compacted 100mm of type one as a protective layer.

The SUREGROUND process was chosen over the traditional design depth of 500mm to meet site temporary works requirements, thus giving the project significant reductions in carbon, vehicle movements, programme and cost.

Soil Science will reverse the process, as part of the decommissioning phase on completion of the main works in 2024, recycling all aggregate on site and returning soils to their original properties, prior to agricultural processes. The decommissioning will also include further testing regimes to give quality assurance to A.Hak when handing back the land parcels to their client, National Gas and the local landowners.

This is the first time that this technique has been used on a National Gas project and is testament to the collaborative working relationship between Soil Science Ltd, A. Hak and National Gas.

