

Project Information:

Blackwell Role	Main Contractor
Form of Contract	NEC3 Option A (amended)
Contract Value	£15.58M

Blackwell Site Management:

Contracts Manager:	Jim Wilkinson
Project Manager:	Paul Bonthron
Quantity Surveyor:	Alex Mercer



Services Include:

Civil Engineering Earthworks Geotechnical Remediation



Contract Summary:

The Ross' Land project involved the reclamation of a 14 hectare site in Aberdeen, which had former uses as a sand and gravel quarry and, more recently, as a landfill. Although only part of the site had been licensed as an inert landfill, the site investigation revealed that the entire site had been subject to landfilling and that biologically active commercial and household waste had also been deposited on the site. As a result, the Ross' Land site was significantly contaminated and generated ground gas, including carbon dioxide and methane.



Working for Stewart Milne Homes, Blackwell prepared the site for use as a residential development by uncovering and treating approximately 50,000m³ of contaminated waste. The development of the land was programmed to commence before remediation operations to treat the contaminated substances were complete. As such, the remedial works were undertaken in four phases.

Key Processes:

Key processes being carried out on the project included the following:

- Site clearance, including the demolition of existing outbuildings.
- The carefully controlled bulk excavation of 600,000m³ of material, to depths varying between 2 and 10 metres.
- The biological treatment of approximately 50,000m³ of biodegradable waste. This included the processing and treatment of all excavated material suitable for use as fill material, with the aim of retaining and reusing as much material on the site as possible.
- The collection and treatment of contaminated surface water and groundwater during excavation works. These operations included the construction of a sustainable drainage system in the south eastern corner of the site.
- The recompaction and engineering of suitable material to create a development platform.
- The stockpiling of suitable material for use on the site after the completion of Blackwell's contract.
- The appropriate disposal of materials unsuitable for reuse, including surplus and any unusual or hazardous waste encountered.
- The construction of temporary and permanent gas vent trenches.
- The creation of a site compound, haul roads, treatment areas and associated infrastructure as required.

