



**STRUCTURAL
SOILS LTD**

Recent projects

Waterfront, Barry

Barratt Homes, Persimmon Homes and Taylor Wimpey required a £310,000 investigation to check for contamination and enable foundation design for a proposed residential and commercial redevelopment of an 88-acre site.

Former uses of the site included ship repairs, engineering works, coal jetties and tramways, and the potential for associated contaminants required the use of full chemical protection suits.

Seven weeks of site works involved 230 trial pits, 48 cable percussion holes and 30 rotary holes. Groundwater monitoring and sampling, surface water sampling and gas monitoring then took place, followed by factual reporting of the works.

Rivermead Leisure Centre

An extension was proposed for an existing leisure centre that lay upon a former landfill site.

Following a desk study, two investigations were undertaken utilising cable percussion boreholes and trial pits. Gas/groundwater monitoring wells were then installed and monitored.

A human health risk assessment and gas risk assessment led to remediation proposals and subsequent validation. A groundwater risk assessment (RTM/P20) was undertaken, followed by further long-term sampling, testing and reporting for water quality.

Structural Soils also assisted the client with regulator liaison and helped obtain waste exemption certification.



Contaminated site studies

Environmental phase 1 studies

Structural Soils Limited (an RSK company) has extensive experience of undertaking phase 1 (environmental and historical) desk studies. These utilise high-quality site-centred Ordnance Survey historical mapping from the late nineteenth century to the present day, and comprehensive environmental database searches. This study determines if the site and surrounding area have been subject to potentially contaminative use and gives information on other aspects such as landfills, radon, watercourses, aquifers and public water supply abstractions.

Environmental phase 2 site investigation

Environmental site investigation often utilises the low-disturbance technique of dynamic sampling, as well as excavator-dug trial pits and cable percussion boreholes. Standpipes are often installed for the monitoring and sampling of groundwater and soil gases by our site technicians.

We have investigated sites with varied historical uses including petrol stations, factories, abattoirs, landfills, timber treatment works, scrap yards and foundries. The proposed developments are again varied, with the most sensitive end use generally being residential.

Consultancy and phase 3 work

We have extensive consultancy experience in the redevelopment of brownfield land and the assessment of risk to human health and groundwater. We can assist with the design, supervision and validation of the remediation process. We also liaise with local authorities, the Environment Agency and the National House-Building Council during investigation and remediation. Qualitative and quantitative risk assessments can be undertaken to ensure that remediation projects address all the issues that may give cause for concern.

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