

New Radioactive Waste Facility

Former Use:	Current function as an Atomic Energy Research Campus
Client:	Science and Technology Funding Council (STFC)
Value:	£undisclosed
Location:	Oxfordshire
Area:	0.75Ha

A Ground Investigation was undertaken to establish foundation design and if any requirement for remediation of soil or groundwater was required on this site. Provectus worked closely with the structural engineering firm employed by the client.

The site comprised three areas. A contractor's yard with a mix of hardstanding and single storey temporary buildings, a tarmaced car park and a wind farm research station with open space.

The site is to be redeveloped to house a new building comprising a split level warehouse and offices. It is proposed to use the new building for storage and treatment of low level radioactive waste including high tonnage gantry cranes for material movement.

Due to the high long term loadings of the proposed building, detailed knowledge was required on the underlying chalk to allow foundation design. This was undertaken using rotary bored holes providing high quality core recovery allowing detailed rock description in accordance with Eurocode 7.

Settlement analysis was also undertaken using plate bearing tests at proposed foundation depth. This required tests to be undertaken within trial pits at up to 3m depth. Safety was



paramount and these works were undertaken with large shored trial pits which were fully reinstated on completion, including one within the staff car park.