

Contract Value	£7.2M	Commenced	Jan 2006
Contract Period	54 Weeks	Completed	Jan 2007

Features

- Design and Construct
- Operational Sites
- New and upgraded odour control extraction
- Hypochlorite/caustic scrubbers
- Duty/standby main extract fans discharging to new stacks
- Bulk chemical storage tanks
- Screening skips enclosures
- HV & LV power, cabling and controls
- New and modified PLCs and SCADA
- Enclosed Tanker Station
- Piling, civils and infrastructure works



Brief Description

The two wastewater treatment works at Birkenhead and at Bromborough on the Mersey estuary in the Wirral area around ten years old. The Birkenhead works, constructed in a reclaimed dock opposite the Liverpool waterfront, serve a population of around 220,000. The works at Bromborough are about 8km to the south and serve the towns of Bromborough and Bebington.



Both sites have a history of odour complaints. The Birkenhead works are near to the town centre, and a college, theatre and crèche are next to the site boundary. The Bromborough works are close to residential areas. The original odour control provision at both sites has not proved effective, and whilst some improvements have been achieved in recent years with relatively low budget measures, the objectives of this contract are major improvements with new and upgraded systems to significantly reduce odour emissions at site boundaries.

Upgrading of the odour control extraction systems are being made to the varied process areas and with some additions such as inlet channels and skip areas.

Major ductwork installations / modifications are required, together with duty/standby extraction and booster fans, new chimney stacks, hypochlorite/caustic scrubbers and carbon absorption units, and chemical storage areas. Associated works include the HV and LV electrical power and control systems, new PLCs and modifications to the existing PLC network and SCADA systems.

Civil engineering works include plant bases, tanker bays and improvements to roads and hardstandings. A sheet piled retaining wall has been constructed at Bromborough.

Specialist subcontractors are employed for ductwork and on slab odour control plant. Other works, including that for electrical and control systems, are being carried out with in house resources.

Close liaison with United Utilities Operations staff is being maintained throughout for continuing management of the operational sites. Contract conditions are lump sum (CD 100) design and construct.

Contact Name: Paul Sellars
Client: United Utilities
Tel: 01925 234000