

North Staffordshire Acute Psychiatric Unit (APU)

Case Record



Location Stoke on Trent, Staffordshire, UK

Client North Staffordshire Combined Healthcare NHS Trust

Main Contractor Carillion Building Special Projects

Contract Value £18 million

Design, build, finance and operate a 148 bed Acute Psychiatric Unit.

Environmental Initiatives

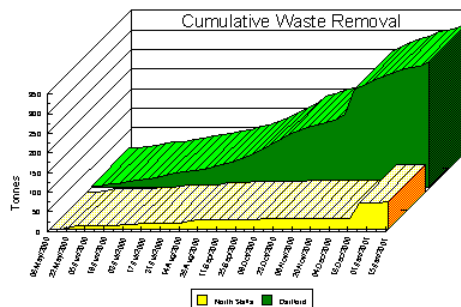
Waste Reduction Waste segregation scheme

Water Conservation Monitoring water usage and implementing changes

Waste Segregation: The project initiated a waste segregation system. Materials are separated for re-use or recycling and for any remaining waste they have been able to negotiate a 25% reduction in skip charges.

Concrete, brick and block are stored together as they will be crushed for use as hardcore. Wood is shredded for use in landscaping. Paper and cardboard are removed free of charge for recycling.

The remaining cumulative waste generated from North Staffs APU is significantly less in comparison to the Darent Valley Hospital (Dartford and Gravesham) PFI (shown in green) waste generation. The Darent Valley waste tonnage in this graph has been factored by 1/5 to compensate for project value difference between the two projects.



Water Conservation: Water usage was monitored to identify both possible improvement and future changes.

This demonstrated the improvement that occurred from the installation of water minimisers. It also established that more water was being removed from the septic tank than they were taking off the mains. Investigation found surface water was entering the septic tank, which cost £200 per tanker to remove.

Another initiative was the collection of site run off water via grips with straw filter and storing it in the permanent works buffer pipe which was plugged. The resulting accumulated water was used for dust suppression on the roads, avoiding the use of 2000 litres per week of fresh water in the summer.

North Staffs APU - Water Usage

