Barhale

Ashford WWTW Extension Project

Client:	Southern Water
Location:	Ashford, Kent
Value:	£12m
Duration:	21 Months

Collaborative Working

NFT Chamber

In Brief...

As part of Southern Water's £1.8 billion AMP 5 programme, Barhale is currently undertaking a £12m design and construct upgrade to Ashford Treatment Wastewater Works enhancing capacity to allow for population growth in the area.

The project began in June 2012 and is expected to be completed by March 2014.

Technical Features...

- Upgrading of the Inlet Works, including the installation of 4 new inlet screens and associated screen handlings equipment.
- Refurbishment of the 16 No. Biological Filters
- Construction of 2 No. 27m diameter Humus Tanks
- Construction of Humus Desludging Pumping Station and MCC
- Construction of a new Nitrifying Trickling Filter
- Construction of 2 No. Deep Bed Sand Filters
- Refurbishment and upgrading of the Recirculation Pumping Station
- Refurbishment and upgrading of the NTF Feed Pumping Station
- Refurbishment and upgrading of the DBSF Feed Pumping Station
- Refurbishment and upgrading of washwater around the site.

Interface Management

Through our corporate design and construction procedures, Barhale, working in collaboration with our design delivery partner URS and Southern Water, established a series of design workshops to ascertain the exact objectives and milestones the project would need to deliver. The challenges that all project stakeholders faced on the Ashford project was the limited as built design and assets information for the existing site.

This element was mitigated by undertaking a series of workshops which also included the interaction with the supply chain and the existing operational staff of the waste water treatment works.

By conducting these workshops we were able to maintain an easier changeover from the HAZOP and Assets Lifting and Maintenance to Issue for Construction process as all the key project stakeholders had been involved in the design process from project design conception.

This allowed for a more accurate tendering process being established and the unknown risk element which can associate with project's tenders drastically being reduced.

As a result of the early key collaboration being undertaken, at the project conception Barhale were able to successfully demonstrate to Southern Water that by utilising offsite precast concrete constructions methods in the design and construction of the Humus and Deep Bed Sand Filters, we could enhance both programme benefits as well as reduce health and safety risks to our employees. This removed the need for laborious activities such as scaffolding, form work and concrete pouring and finishing. By using pre cast components we were able to reduce the overall construction programme by 10 weeks.