

PROJECT INFORMATION SHEET

Project Title 223 Anderby Creek
Client Environment Agency
Value £125,000
Start Date 14 October 2013
Finish Date 18 October 2013
Contract UX85469/2025
Site Agent Lee Long & Stuart Robinson
Suppliers G Nicholson Engineering Ltd

PROJECT DESCRIPTION

Anderby Creek outfall sluice is located at the downstream end of Main Drain. Flows to the Main Drain are regulated by an Inland Drainage Board pumping station and the outfall discharges to sea. The sluice structure consists of a chamber containing a guillotine sluice gate at the tidal side and a flap valve to the inlet.

The project involved renewing the flap valve like-for-like and replacing the hinges which had become worn over time.

A redundant penstock gate to the side of the chamber was decommissioned to remove the need for maintenance.

HEALTH & SAFETY

Personnel access in to the chamber was restricted to two fixed ladders. Tripods, winches, gas monitors and other confined space equipment were used throughout the works.

All work within the chamber could only be undertaken at low tide and throughout the works the inland pumps were locked-off by the IDB to prevent discharge through the sluice from the inland drain.

ISSUES, EFFICIENCIES, INNOVATIONS & LESSONS LEARNED

Previously, a different contractor was employed to undertake the work. However, the work was not satisfactorily completed due to quality and managerial failings.

GNEL was subsequently employed and successfully completed the work through careful consideration and planning.

ENVIRONMENTAL CONSTRAINTS

The main environmental issue was prevention of saline intrusion through the chamber to Main Drain on the inland side.

Prior to the works commencing, the EA were consulted on the risks and during the works measurements were taken to record the salinity of the inland water.

WASTE MANAGEMENT

Any waste materials were taken off -site and disposed-of in accordance with the SWMP.

COMMUNITY LIAISON

Being situated immediately adjacent the local Anderby Creek community and a popular beach, consideration had to be given to the public's view of the site and the affect of the on-going work activities.

Although the site was fenced-off and access restricted to authorised personnel only, efforts were made to inform the local residents of the on-going works and its likely duration.



Photo 1: Main access route to site.

Photo 2: Surface level of chamber containing the flap valve.

Photo 3: Outfall of Main Drain in to the chamber. The flap valve prevents the incoming tide from entering the drain.

