

CASE STUDY

CLIENT

Persimmon Homes

PROJECT

Persimmon Homes housing development at Ingleby Barwick

SCOPE OF WORK

Retroflo's experienced engineering team were employed to carry out the detailed M&E and civil design of the foul pumping station required at the new development in Ingleby Barwick.

The pumping station is designed to serve approximately 138 houses. Retroflo also carried out the supply, installation, testing and commissioning of the station and liaised with NWG regarding the adoption of the asset.

CONSTRUCTION DATE

September 2014 – March 2015

Maintenance:

March 2015 to present



SANDHILLS FOUL WATER PUMPING STATION

Adhering to Northumbrian Water's E0702 design guidelines for two-pump pumping stations and Sewers for Adoption specifications, Retroflo produced a complete design package for the two-pump submersible pumping station specified.

Working closely with the civil construction team ensured a seamless transition between civil and M&E activities, which meant that the whole construction process was completed swiftly and on programme.

The pumping station consisted of:

- ▶ A new concrete wet well containing two submersible pumps, ultrasonic level control equipment and various pump and pipe work ancillaries
- ▶ A new reinforced concrete valve chamber containing the associated cabling, cable management and discharge pipe work to NWG specifications
- ▶ A new high-security steel kiosk containing the Motor Control Centre (control panel), electrical distribution, telemetry and electrical fused cut-outs and meters.

The installation of the pumping station was supplemented by the completion of the NICEIC 17th Edition Electrical Inspection and Testing of the station, along with the commissioning, handover and documentation. A service and maintenance package is available until adoption is finalised.

PROJECT SUMMARY

- ▶ Mechanical and electrical design
- ▶ Civil design
- ▶ Mechanical and electrical installation
- ▶ MCC and kiosk supply and installation
- ▶ NICEIC 17th Edition testing, and commissioning and documentation
- ▶ Management of adoption procedure
- ▶ Liaison with NWG regarding connection into existing sewer assets