



ENVIRONMENTAL



FLOOD RISK



DRAINAGE



ECOLOGY

# AWS – Model Build Programme

## Anglian Water, 2005-09

### Project background

Clear have been supporting Anglian Water's local modeling teams during AMP4 through an Asset Planning framework contract. This has generated a large and varied workload throughout, with studies covering catchments both large and small, with varying degrees of technical input and expertise required.

A key feature to the successful management of this framework has been establishing and maintaining good communication links with the client, with multiple client managers spread across five regional offices.

### Summary of Projects

Clear have completed, or are in the process of completing 11 Drainage Area Plans (DAPs), varying in size from Clifton (12k pop) and March (20k pop) up to Great Billing (Northampton) and Whitlingham (Norwich) which have populations of around 250k.

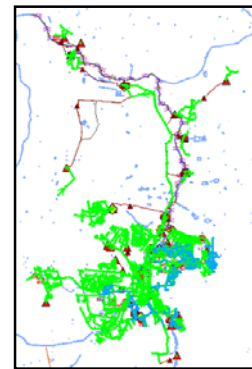
In addition to these long-term DAP projects, Clear has also provided more immediate responses to pressing questions on growth through a number of strategic growth studies and developer / trade discharge consent enquires.

A question often asked is whether an existing model is fit for its purpose. Clear have audited a total of four models for Anglian Water, built both internally and by other consultants. The audit conclusions are constructively documented; identifying model limitations, potential alterations or necessary improvements. This is the case for Peterborough,

where the original audit was developed into a strategy for improving the model.

### Model Build

A key aspect to most of the Anglian Water commissions is the requirement for the construction of a model or model refinement. The basis for new model builds is an export from Anglian Water's corporate GIS database, G-Water. This can be imported directly into InfoNet and thus supply the basis of the model network. Subsequently, surveys are planned, focusing on the driver areas. Anglian Water have developed processes with their survey contractors which enable the contractors to receive InfoNet snapshot files which would fully detail all survey requirements. The survey contractor can then return the survey results in InfoNet format. These can be directly imported into the model and the model subsequently updated.



These processes are streamlining the model build phase, which give time, cost and quality benefits.

Clear have been involved in modelling studies in AMP4 for Wisbech, March, Bury St Edmunds, Grantham, Peterborough, Northampton, Broadholme, Norwich, Saxmundham, Kettleburgh, Clifton, Southend, Taverham, Bedford, Cambridge, Tilbury, Harwich, Huntingdon and Doddington.

