



Water Resource Associates

A network of consultants in hydraulics, hydrology, groundwater & environmental issues

Project title: Development of Drought Reliable Output Program (DROP)

Summary: ToR definition, tender selection, and technical and project management and advice to develop and commission a flexible water resources modelling software package based on WRAPSim for Essex & Suffolk Water.

Client: Essex & Suffolk Water	Financed by: Essex & Suffolk Water
Period of assignment: 1995 – 1997	Location: Hanningfield, Essex, UK
Project Value: £120 000	WRA services: £23 000
<p>Schematic Editor - [DROP0122.SCH]</p> <p>File Edit View Window Help</p> <p>Wixoe Intake, SAGS 1, SAGS 2, Langham PS, Langham WTW, Langham Lagoon, Abberton Reserv, Great Sampford Outfall, BW Intake, Hanningfield WTW, Hanningfield #2 PS</p> <p>For Help, press F1</p> <p>📁 DROP Water Resources Model</p>	<p>Background</p> <p>In common with other water companies, Essex & Suffolk Water has a statutory requirement to re-assess the yield of their water resources. Furthermore, several reservoir development options were to be studied requiring flexibility in a generic-type water resources package. The absence of such a package on the market necessitated this development.</p> <p>Scope of work</p> <p>Rob Brown provided technical advice and guidance at all stages of the project from conception to commissioning and subsequent use. He drew up the technical specifications of the Terms of Reference, carried out the technical assessment of the tenders, recommended the best offer, and oversaw all technical aspects of the software development. The software was developed by SfK based on their WRAPSim model, then employed mainly by Yorkshire Water.</p> <p>Results</p> <p>The project resulted in the successful completion and commissioning of the DROP model. The model was subsequently used to assess a wide range of alternative resource system development options. Several further software enhancements were required over the next few years, for which SfK were again commissioned under guidance from Rob Brown.</p>
<p>DROP Core - DROP0122.SCH - Langford Lagoon</p> <p>File Graph Window Help</p> <p>Stocks Hydrograph for Langford Lagoon</p> <p>Run Details: Name: DROP0122.SCH Inflow period: 1990 - 1995 Forecast start: D16/1/1990 Forecast length: 12 months Increment: 1 year(s) Timestep: Daily</p> <p>Key: 0% 10% 20% 30% 40% 100%</p> <p>📁 Results of DROP model</p>	

Project Number 000003

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