

# What's new in WinDes W.9

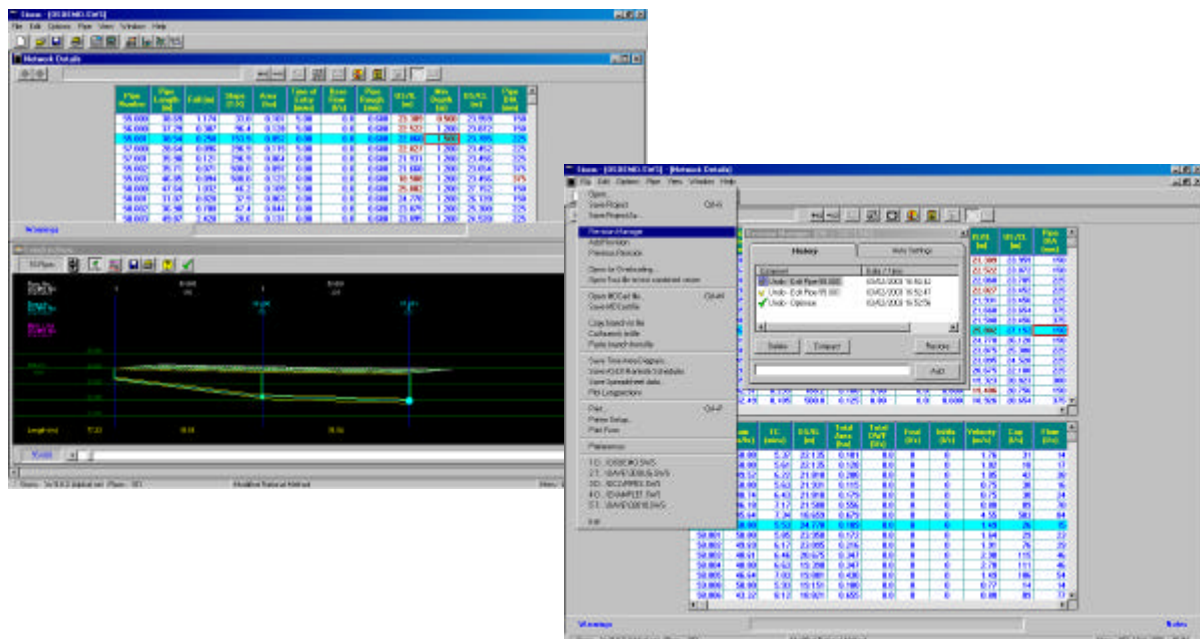
Changes continue apace with drainage issues, even since our last release at the end of last summer. Thank you all for your valued feedback on what you would like to see included within the software, W9 is the result.

Almost universally it seems that drainage engineers are now required to produce *drainage* and *flood assessments* at Planning Stage, in response we have included Mean Annual Flood calculation into the Source Control module. You will also find rainwater harvesting here too. System 1 has received some radical improvements so look out for Schedules, now fully integrated within Storm and Foul. Back track and undo historical changes using the Revision Manager and utilise greater optimise flexibility with varied depths and the ability to fix specific pipes. Incorporate both Colebrook-White and Manning equations in a single design.

Please read on to get a better idea on what's coming...

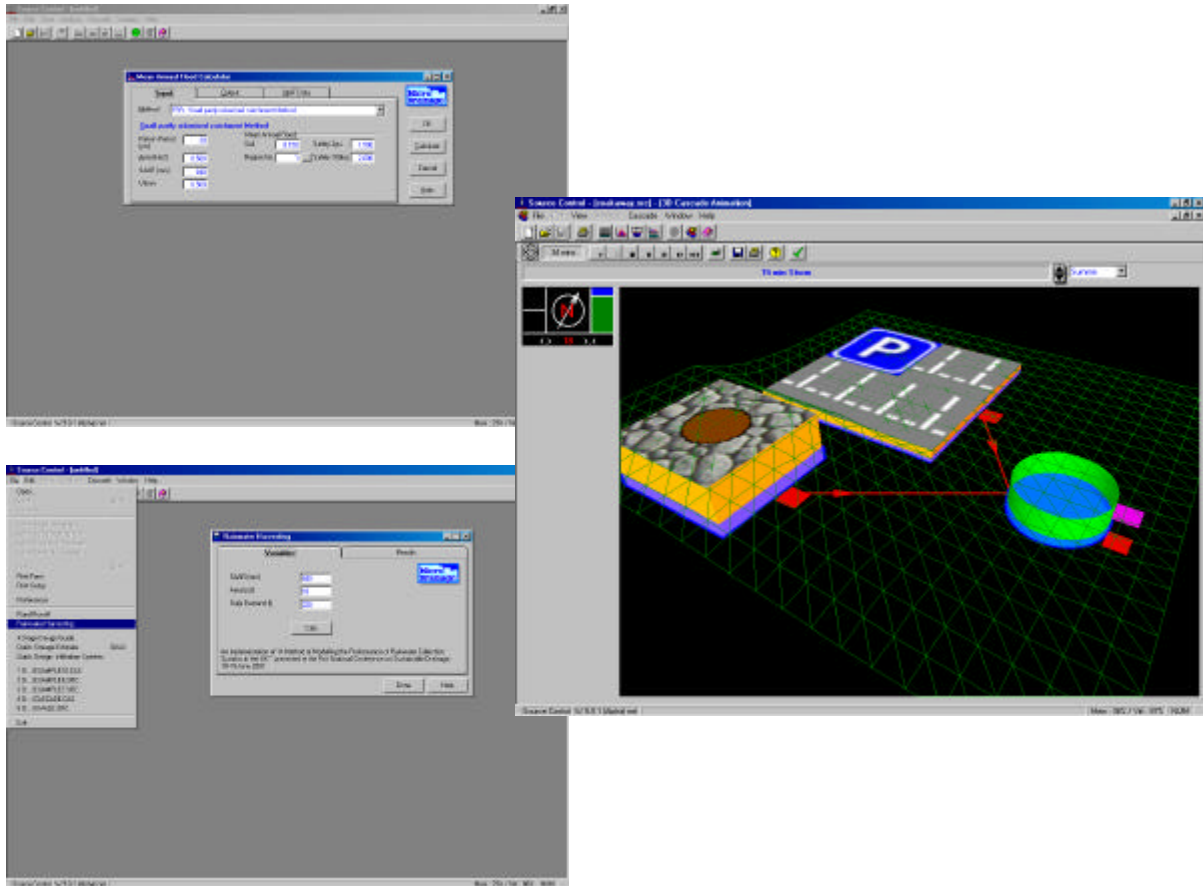
## System 1

- Schedules is now integrated into Storm and Foul
- Multiple manhole size files may be produced
- **Colebrook-White and Manning equations** may be incorporated in a single design
- Optimise will facilitate varying cover requirements, e.g. 0.9m depth for verges and 1.2m depth for highways
- Reverse optimise will enable you to fix specific pipes and re-design the rest of the network. This is particularly useful for analysing existing systems/connection points
- Revision Manager will enable the engineer to back track changes made in this and previous editing sessions
- CAD functionality to click and drag manhole positions
- Cut and paste branches makes it easier to work with sub-catchments



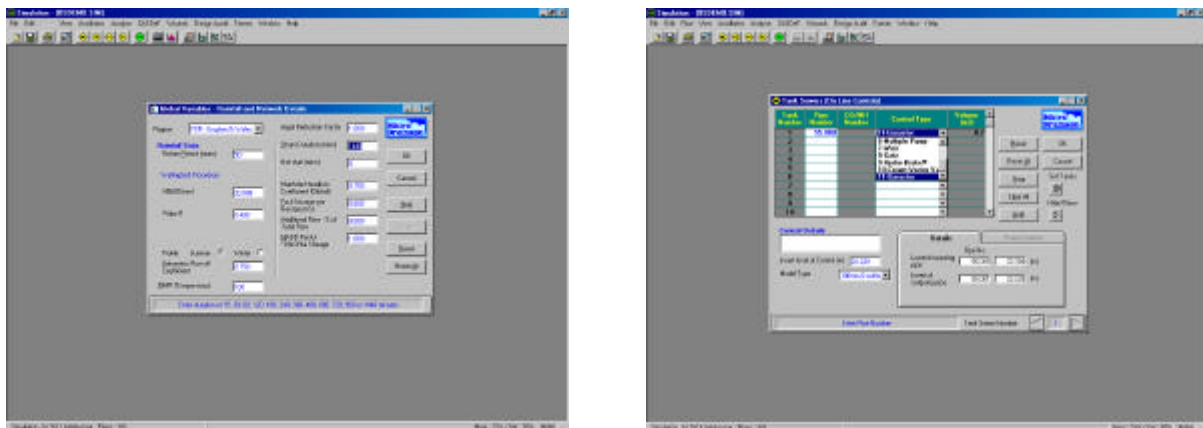
## Source Control

- Mean Annual Flood calculation has been included to enable the existing discharge from rural or semi-urban catchments to be analysed to help with Drainage & Flood assessments at feasibility/planning stage
- Rainwater Harvesting will size up storage tank requirements
- Cascades are graphically represented in 3D



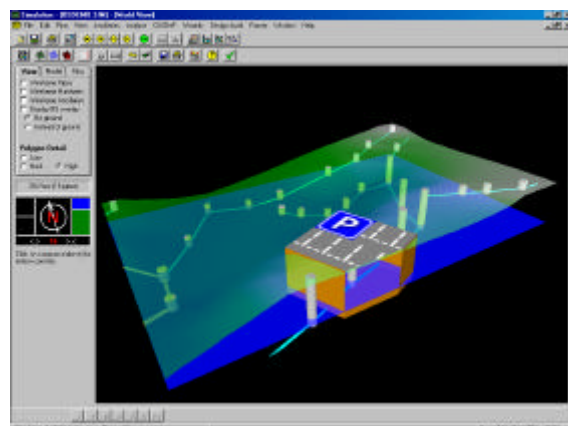
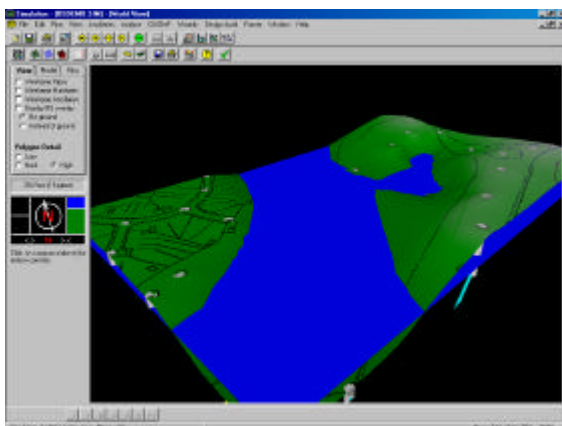
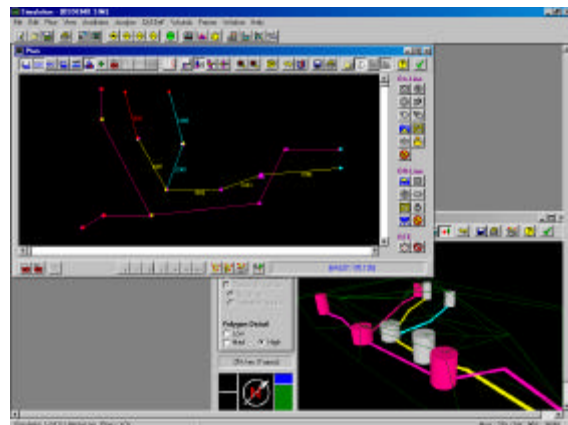
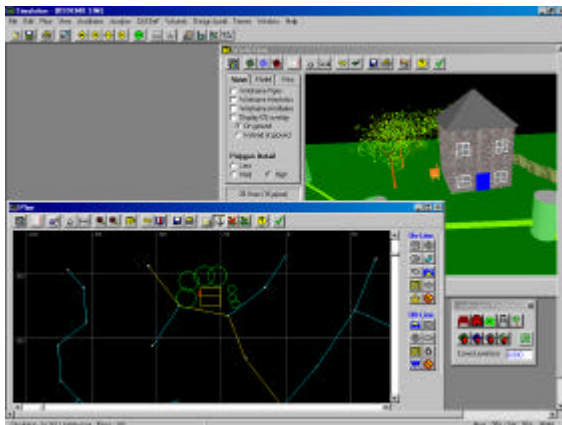
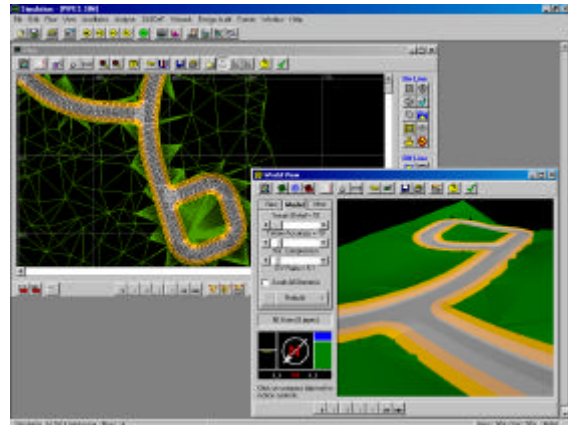
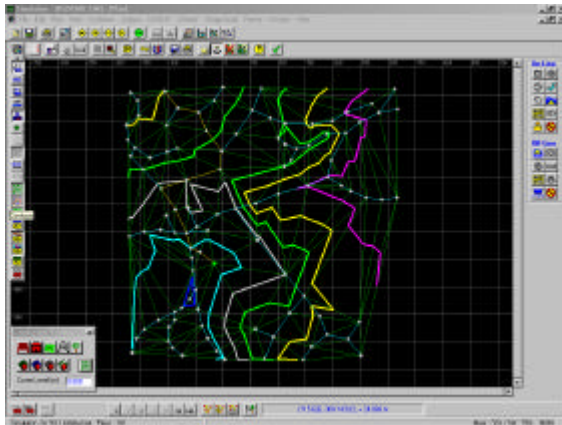
## Simulation

- All pipes are set as tank sewers by default
- Additional online controls have been added
- Extended to include 1440min storm durations, extendable to 7 days via rainfall generator



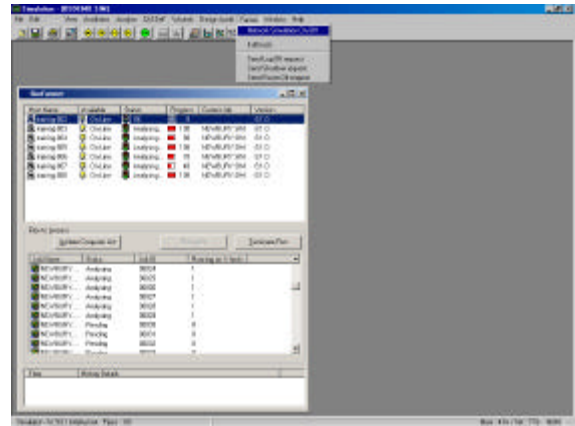
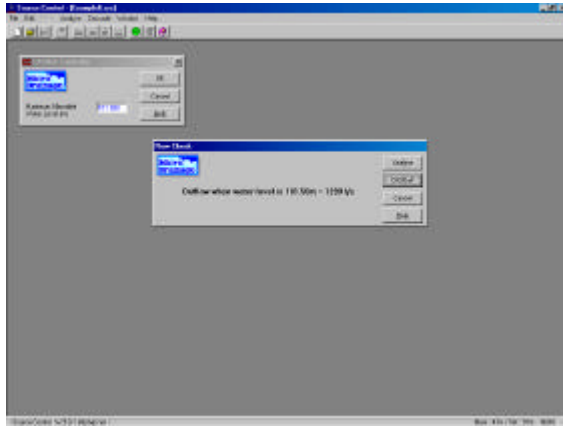
## Advanced Graphics (APT)

- Additional ground levels can be inserted
- Full triangulation has been incorporated to produce terrain profiles
- Contour lines may now be generated
- Digital terrain models may be imported to model flood flow routes, as required in Sewers for Adoption
- Drag & drop landscape features are now included
- Multiple drainage/utility networks can be viewed simultaneously to visually identify pipe clashes
- Groundwater tables can be incorporated



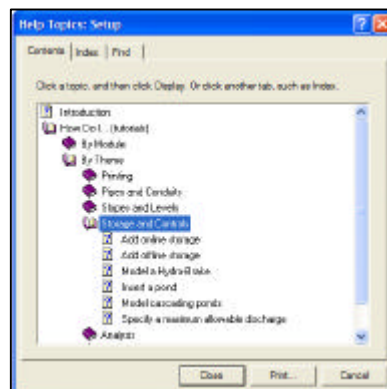
## Advanced Productivity Tools (APT) & CASDeF

- APT & Source Control will analyse inflows based on FSR & FEH unit hydrograph methodology to aid flood drainage assessments
- Parallel processing has been incorporated to utilise all networked PC's for processor intensive wizard and CASDeF runs
- CASDeF incorporated into Source Control allowing SUDS/Storage systems to be optimised for all storm durations



## Help

- How Do I's are now accessible from the *Help* menu
- 6 more *How Do I's* have been added, now totalling 30 supplied with the software



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