Councils

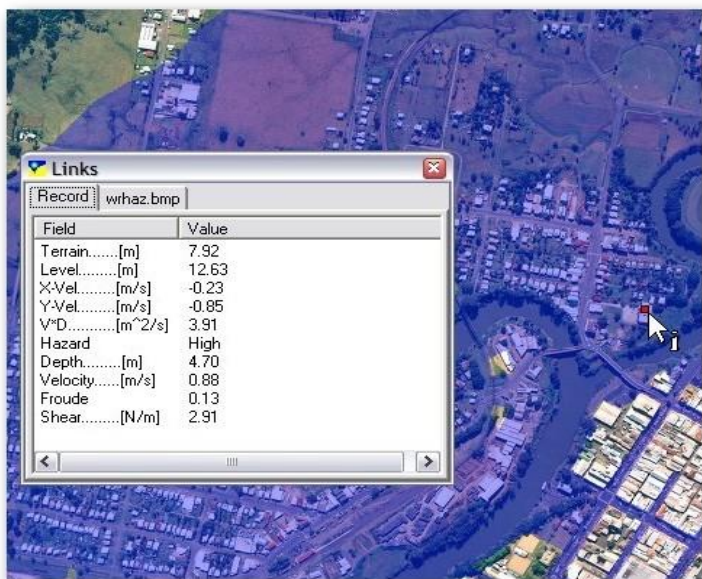## waterRIDE™

waterRIDE™ was developed to facilitate the display and interrogation of time-varying results from any hydraulic model (1D, 2D or 3D) in a live GIS environment, a feature lacking in conventional GIS packages. It facilitates sophisticated interrogation of the model results, across the entire time-series, whilst providing access to, and integration with, GIS datasets, all without the need to be a flood modeller!.
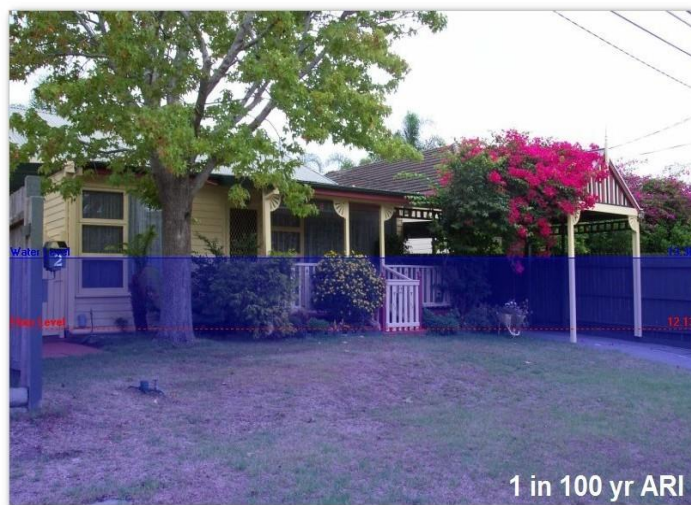
It is designed to provide floodplain managers and Council personnel with access to their model results in an intuitive manner providing valuable information to assist in the floodplain management process. It allows Councils to leverage their investment in, and to get value out of their floodplain modelling results, regardless of the model type used (for example, waterRIDE™ supports results from RMA, TUFLOW, TUFLOW FV, SOBEK, MIKE21, FLS, ANUGA, InfoWorks, MIKE11, EXTRAN (XP-SWMM), HEC-RAS, RUBICON, DELFT3D, SELFE, DRAINS (overland flow), ESTRY, Generic Link-Node models, ASCII Grid results, and even results that exist in hard copy format only!).

Key Features for Councils

- **Interrogate your flood data** – easily extract water levels, flood depths, flood hazards, velocities, and VxD at *any* location on the floodplain.

- **Utilise Investment in ALS** – waterRIDE™ drapes your model results onto your fine scale Aerial Laser Survey (or survey DTM) to enhance determination of flood extents, depths and hazards.

- **Floodplain Mapping** – easily create flood extent maps, flood hazard maps, flood planning maps.

- **Council Wide Access** – waterRIDE™ can be used to provide access to flood information on a Council wide basis (if desired).

- **Simplified Access to Flood Information** – the waterRIDE™ interface is simple to use, presenting complicated flood information in a visually appealing and easy to understand manner. Non technical people (including the community) can readily understand flooding issues (this is particularly true for 1D model results).

- **Quality Assurance in Providing Flood Information** –waterRIDE™ provides Council with a standard method of interrogating flood information and determining flood levels, thereby ensuring consistency in issuing flood data.

Community Education: Powerful graphics clearly convey flood risks to the community

- **Automated Flood Certificates** - ensure fast, consistent, and quality controlled flood information is issued at the click of a button

- **Common Interface To Models** – waterRIDE™ provides a common interface to the results of many different hydraulic models. All your model results look the same, regardless of model type.

- **Linking Flood Data With GIS** – easily integrate flooding data with GIS datasets (eg depth over floor flooding, depth over evacuation routes). Export result to GIS platforms such as MapInfo and ArcView.

- **Community Education** – waterRIDE™ can be used to clearly illustrate flooding issues to the community in a highly visual manner they can understand.

- **Easy Hydraulic Analysis** – waterRIDE™ facilitates easy analysis of hydraulic results including flood hazard analysis, flood damage assessment and can assist in floodway definition and categorisation.

- **Emergency Management** – the unique time varying analysis capability and flood forecasting features of waterRIDE™ provide essential information for flood emergency planning and evacuation management.

Access to Information: Flood information for a particular property