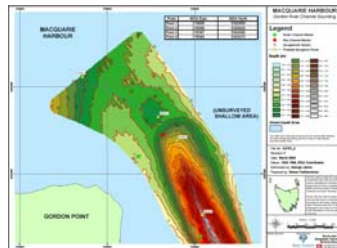


# PROJECT DATA

## Gordon River Channel Bathymetry

<b>CLIENT</b>	Hydro Tasmania
<b>PROJECT LOCATION</b>	West Coast, Tasmania, Australia
<b>DATE OF PROJECT</b>	2004
<b>SERVICES PROVIDED</b>	<ul style="list-style-type: none"><li>• Bathymetry and</li><li>• Presentation of Results</li></ul>



Hydro Tasmania's Survey and Geographic Information Services Group (S&GIS) was engaged to undertake a detailed bathymetric survey of a section of channel at the mouth of the Gordon River. The measurement phase was conducted using 'Transit', one of S&GIS's two custom-built survey vessels.

Depth data was obtained with a *Reson Navisound 215* single beam echo sounder in conjunction with a *TC2122* transducer, which functions as a true real time alternating dual frequency unit with transmission frequencies 33kHz and 200kHz - nominal measurement accuracy 1cm at 200kHz and 7cm at 33kHz.

Position data provided by our *Trimble 4700RTK GPS* units, which delivers continuous data output to an accuracy of around 5cm, complemented the achievable accuracies of the depth sounder.

The hydrographic survey was managed by *Geonav*, a suite of PC based software that enables efficient, high precision data acquisition and navigation. The raw unfiltered sounding data, and a corresponding epoch for each position measurement, were captured in real time to ensure optimum data accuracy and reliability.

*Geonav* also incorporates extensive post-processing data options that enabled all output to be verified and edited prior to export to the surface modelling software. *Terramodel Hydrographic Data Management System* and *ESRI ArcGIS* were utilised for modelling and to present the results - a hydrographic chart with a coordinated centre-line track.

LEADERS IN CONSULTABILITY