



## Project Sheet

### Comprehensive Reserve Determination Study of the Integrated Vaal River System: Water Resources Modelling

**LOCATION:** Vaal River Basin, Gauteng, South Africa

**CUSTOMER:** Department of Water Affairs

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**STATUS:** Complete **DURATION:** January 2007 – July 2010

**OBJECTIVE:** The main objective of the Water Resources Modelling Sub-study of the project entitled Comprehensive Reserve Determination Study of the Integrated Vaal River System (IVRS) was to ensure that the actual integration of the Reserve determination results of the IVRS takes place.

#### DESCRIPTION

- Provision of information regarding the current and future operation of the IVRS in view of the selection of Ecological Water Requirement (EWR) sites.
- Updating and refinement of the Water Resource Planning Model (WRPM) configuration.
- Provision of natural and present day time series data to technical teams.
- Development (identifying and selecting ) of scenarios to be analysed.
- Undertake WRPM scenario Analyses.
- Assess the consequences of the scenarios.
- Provide training and capacity building.

#### RESULTS

- Water Resource Modelling report.
- Updated Decision Support System (WRPM).



