



The development of a computer-based model for the analysis of the Walvis Bay water reticulation network. The model provided a tool to be utilised by the technical personnel to ensure that all customers receive adequate water supply at the desired pressure on a sustainable basis. The model will further be utilised as a means for the successful planning of future developments and expansions. Tasks included:

- Compiling a hydraulic model of the existing municipal water reticulation network
- Simulate various scenarios of current and future demands
- Identify network restrictions and recommend short, medium and long term remedial and planning actions to improve network pressure and service delivery;
- Extend hydraulic model to master planning model for 2018 and 2030 IUSDF development scenarios
- Reporting and presenting results

09/2012 the contract was expanded to include additional services: analyses and modelling of the water reticulation network of Walvis Bay, recommending the optimum attributes and location of a new storage reservoir and the design and contract supervision thereof.

03/2014 the contract was expanded to include additional services: expansion of bulk water model to include 2030 planned extensions

WALVIS BAY WATER NETWORK MODELLING

PROJECT STATS

Value	NAD 1.19 million (manifold) USD 0.73 million (ROE 16.24)
Location	Walvis Bay, Namibia
Client	Municipality of Walvis Bay
Start	10/2011 (original appointment) 09/2012 (expansion of contract) 03/2014 (expansion of contract)
Finish	06/2015



SERVICES

- Investigation
- Simulations
- Master planning
- Reporting
- Project management
- Preliminary & details design
- Tender documents, process & evaluation
- Site supervision
- Contract administration

Project Management

Civil