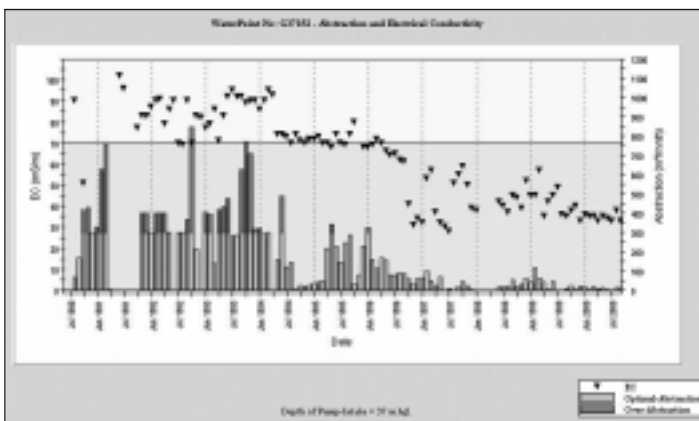## Fulfilling reporting requirements

AquiMon is able generate a number of reports designed to assist with the management of water services from groundwater schemes:

- The *Water Services Summary* reports on all borehole supplies in the system, the status of the water level, the amount of water used (total and per capita), and water quality.

- The *Monitoring Schedule Summary* covers all waterpoints in the system.

- The *Technical and Waterpoint Monitoring* report provides information about a specific waterpoint.

- The *Licensed Water Use* report is used to register and report on water use as required by the National Water Act.

These reports are specifically designed to ensure more appropriate monitoring and managing of groundwater within a municipality, and to assist municipalities to fulfil their licensing obligations.

Use of AquiMon in the testing phase

Municipalities that have used **AquiMon** include the Chris Hani District Municipality (Eastern Cape), the Ugu District Municipality (KwaZulu-Natal) and the Kamiesberg Local Municipality (Northern Cape).

For more information

AquiMon can be obtained free of charge from the Directorate: Information Programmes, Department of Water Affairs and Forestry, Pretoria (phone 012 – 336 7500).

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AQUIMON

SOFTWARE
FOR
GROUNDWATER
MANAGEMENT

the dwaf

NORAD
DIREKTORATET FOR
UTVIKLINGSSAMARBEID
NORWEGIAN AGENCY FOR
DEVELOPMENT COOPERATION

Produced under:
The NORAD-Assisted Programme for the Sustainable Development
of Groundwater Sources under the Community Water and Sanitation
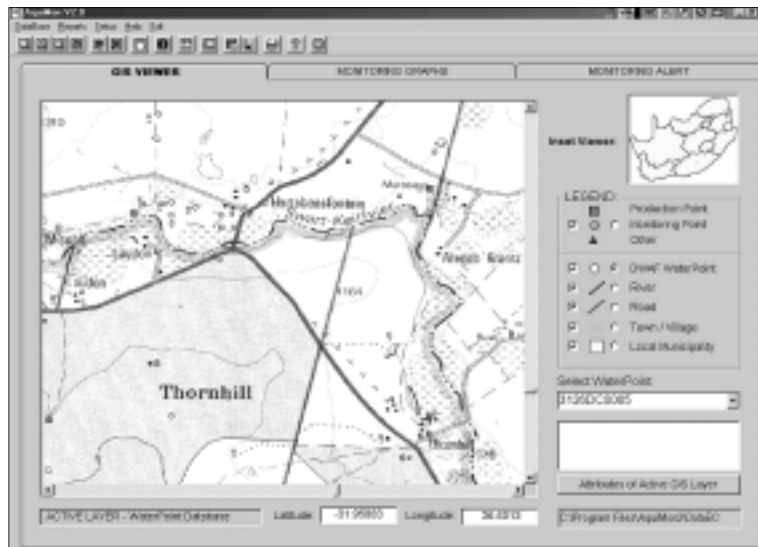**Programme in South Africa**

AQUIMON
SOFTWARE FOR
GROUNDWATER MANAGEMENT

Who will find AquiMon useful

AquiMon is a software tool designed to assist groundwater managers with organising and interpreting groundwater monitoring data.

What it looks like

In starting up, a screen displays a map with boreholes, settlements, municipal boundaries, roads and rivers. 1:50 000 maps can also be used as a backdrop.

Why use AquiMon

Using the software, information about each borehole within a municipality can be viewed as a series of graphs. Basic borehole information, monitoring recommendations and water chemistry information is viewed and can be edited.

Most importantly, AquiMon can be used to fulfil municipal reporting requirements around groundwater availability and usage.

How information is stored

Information stored in AquiMon consists of
- static point information, and
- time series data.

The *static point information* is background information about a particular waterpoint, and is arranged in four categories:

- *Location and Identity* – covers where the waterpoint is located, under whose responsibility it is, and the details of the operator.
- *Borehole Information* – includes details of where water was found during drilling, and information on the size and depth of, and equipment installed in, the borehole.
- *Yield and Pumping Information* – covers recommendations (normally from a hydrogeologist) for how the borehole is to be used.
- *Monitoring* – covers what must be monitored, at what intervals, and who has recommended the monitoring.

The *time series data* is the actual monitoring information collected regularly by the scheme operators. It is called "time series" because it enables viewing how information changes over a period of time. The data that can be stored includes:

- *Groundwater Level* – the level of the groundwater below the ground.

- *Abstraction* – how much water has been pumped from the source.

- *Monthly Rainfall*

- *Water Quality Determinands* – all commonly sampled determinands for drinking water quality and groundwater quality.