

5th REGIONAL AFRICAN
WATER LEAKAGE SUMMIT 2015
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 DSEA Valindela Auditorium, Midrand, South Africa

Addressing residential water consumption on Rand Water property

Presented by:
 Samanta Stelli

Participating and supporting organisations:

Rand Water's area of supply

- ♦ Gauteng
- ♦ Parts of Mpumalanga
- ♦ Free State
- ♦ North West

Water Wise

- ♦ Water Wise is Rand Water's environmental brand
- ♦ Provides a framework to promote water conservation through education and awareness campaigns.
- ♦ Conducts research to inform awareness campaigns.

Challenges to Rand Water's core business

- Pollution.
- Illegal water extraction.
- Effects of climate change i.e. drought.
- Increasing population i.e. increased water demand.
- Destruction of natural freshwater ecosystems such as rivers and wetlands.
- Limited water resources i.e. decrease in water supply.

water demand > water supply

Back home...

RAND WATER

Zwartkopjes site – pilot study

Conduct a water meter audit on site

The image shows a collage of photos related to water meter audits. At the top left is the logo for WRP (Water Resources Project) A Myso Group Company. Below the logo are several photographs: one showing a brick wall and a red door, another showing a garden area with a brick wall, and a large central photo of a water meter with the number 33008508 visible on its cover.

Auditing the site

The image shows a screenshot of a 'Water Audit Report' form. The form includes fields for 'MTR No.', 'MTR Make', 'MTR Model', 'MTR Size', 'MTR Location', 'MTR Condition', 'MTR Status', 'MTR Date', 'MTR Type', 'MTR Material', 'MTR Size', 'MTR Location', 'MTR Condition', 'MTR Status', 'MTR Date', 'MTR Type', 'MTR Material'. There are also sections for 'Comments' and 'Remarks'.

- GPS coordinates
- Photo of meter
- Size, make, and model of meter
- Serial number
- Legibility
- Size of chamber
- Pipework condition
- Functioning of meter
- Suitability of meter to fit AMR

Irrigation systems, street taps, and other connection points

The image shows two photographs. The left photo shows a complex network of blue pipes and valves, likely an irrigation system, with several red-handled street taps. The right photo shows a close-up of a red-handled street tap on a brick wall.

The way forward

- Meters with pulse output facility
- Automatic meter readers (AMRs)
- Wireless data loggers
- Up to eight flow meters can be linked to one AMR unit
- Sends data to software package for analysis

The image shows a 'Cello GSM Data Logger' device, which is a black, circular, ruggedized unit with a blue label that reads 'TECHNOLOG Cello GSM Data Logger'. It is shown next to a photograph of a water meter.

The way forward

The image shows a screenshot of a software interface for 'Live consumer data'. The interface displays a bar chart titled 'Daily consumption between 2011-07-08 and 2011-07-13'. The chart shows consumption in litres per day for two different areas, with green bars representing one area and orange bars representing another. The software interface also includes a map showing the location of the 'Internal meter, Area 20'.

Fixing leaks

The image shows four photographs illustrating water leaks and repair work. The top-left photo shows a blue pipe with a leak in a garden. The top-right photo shows a red pipe with a leak in a garden. The bottom-left photo shows a red pipe with a leak in a brick wall. The bottom-right photo shows a red pipe with a leak in a brick wall.

Education and awareness campaign

Greywater Use in Gardens

Water Wise

ARE YOU WATER WISE???

Surveys and questionnaires

Water Calculator

Questionnaires

Your Water Wise Calculator

Water Wise Questionnaire

Water use, perspective, and saving.

Your Water Wise Calculator

Water Wise Questionnaire

Expanding the study

- Forest Hill Flats
- Zuikerbosch
- Vereeniging

RAND WATER

"All good habits start at home."

Be the Hero

Close the tap while brushing your teeth and save hundreds* of litres of precious water.

Save Water

Visit www.bethehero.co.za for water saving tips

We all live downstream from one another...