



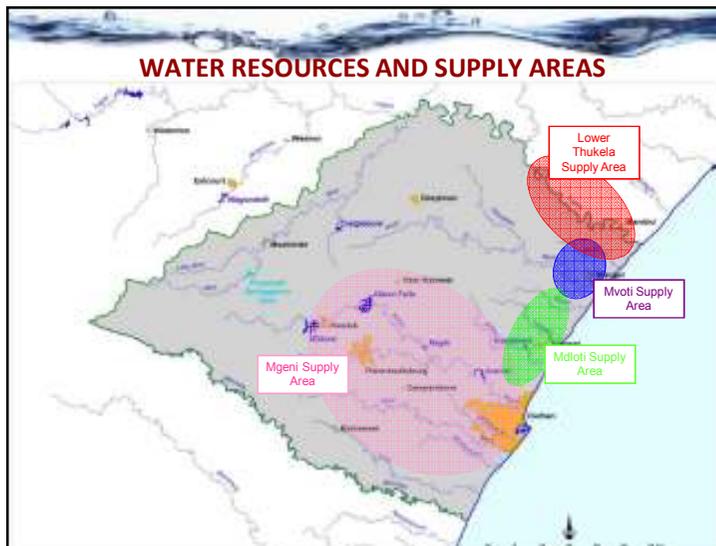
## Implementation and Maintenance of the Water Reconciliation Strategy for the KwaZulu-Natal Coastal Metropolitan Areas

### WATER BALANCE UPDATE AND WATER SUPPLY SITUATION

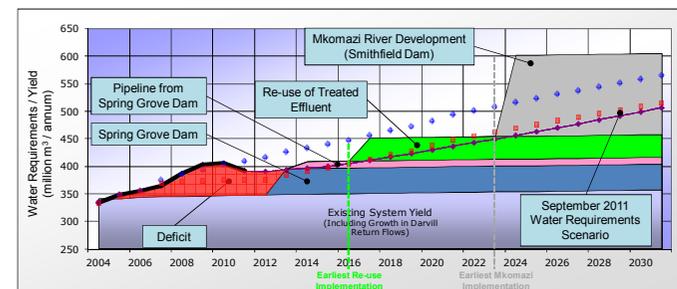
14 March 2012



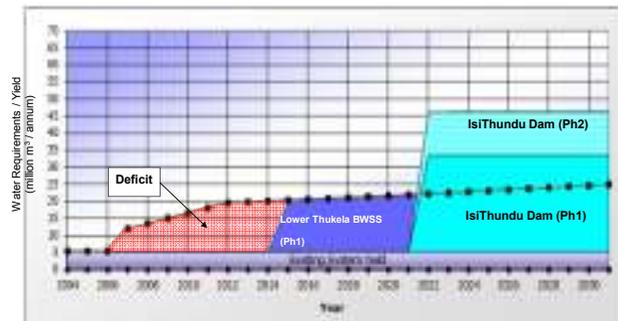
### WATER RESOURCES AND SUPPLY AREAS



### Water Balance – Mgeni System (September 2011)

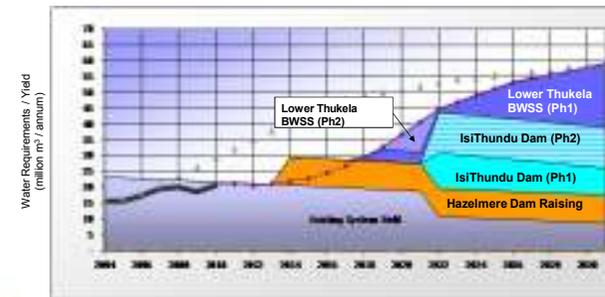


## Water Balance – Mvoti System (March 2012)



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## Water Balance – Mdloti System (March 2012)



### NEW DEVELOPMENTS

- **Hazelmere Dam Raising**
  - Geotechnical issues
  - Alternative options to Dam raising
  - Implications – more expensive, longer to implement
- The situation was discussed at the recent TSG meeting.
- Alternative supply options were looked at.
- Preliminary financial analysis has been undertaken.



### Strategy Actions (1 of 3)

Action	Responsibility
<b>PRIORITY INFRASTRUCTURE PROJECTS</b>	
MMTS 2 - Spring Grove Dam and transfer system	National Water Resource Infrastructure Branch & TCTA
Raising of Hazelmere Dam	National Water Resource Infrastructure Branch
North Coast Pipeline	Umgeni Water

## Strategy Actions (2 of 3)

Action	Responsibility
<b>PRIORITY FEASIBILITY STUDIES</b>	
Feasibility Study of the Mkomazi River Transfer Scheme.	DWA Directorate: Option Analysis
Feasibility study of the Thukela and Mvoti systems	DWA Directorate: Option Analysis/ Umgeni Water
Feasibility study for water re-use options	eThekweni Metro
Feasibility study for desalination of sea water	DWA, eThekweni Metro

## Strategy Actions (3 of 4)

Action	Responsibility
<b>WATER USE EFFICIENCY</b>	
Implement further Water Conservation and Water Demand Management measures	eThekweni, iLembe, Ugu, Umgungundlovu Municipalities & DWA Directorate: Water Use Efficiency.

### MGENI SYSTEM: LOAD SHIFT

- Updated modelling and risk analysis for the KZN coastal water supply area was done based on additional scenarios using the Water Resource Planning model (WRPM)
- Upper Mgeni system includes Midmar Dam with support from the Mooi (Spring Grove/ Midmar); while the Lower Mgeni System included the area from Albert Falls to Nagle and Inanda Dams
- Results will be presented in following presentation

